

Work Order ID 98643

98643

Page 1

March-19-13 10:53:02 AM

Item ID: 646.4001

Accept

N900040100

Setup Start *NS1*

Revision ID:

Stop *NS2*

Item Name: AS350 Cable Cutter

Start Date: 3/19/13 Start Qty: 1.00

1

Cust Item ID:

Required Date: 4/02/13 Req'd Qty: 1.00

1

Customer:

Reference:

Approvals: Process Plan: *ML5*

Date: *13-03-19*

Tooling:

Date:

Run Start *NR1*

QC:

Date:

SPC (Y/N):

Date:

Stop *NR2*

| Sequence ID/ Work Center ID | Operation Description | Set Up/ Run Hours | Tool ID | Tool # | Plan Code | Accept Qty | Reject Qty | Reject Number | Insp. Stamp |
|--------------------------------|--------------------------|----------------------|---------|--------|--------------|---------------|---------------|------------------|----------------|
|--------------------------------|--------------------------|----------------------|---------|--------|--------------|---------------|---------------|------------------|----------------|

| Draw Nbr | Revision Nbr |
|----------|--------------|
|----------|--------------|

646.4000

A

| | | | | | | | | | |
|-----|--|------|--|--|--|--|--|--|--|
| 100 | | 0.00 | | | | | | | |
|-----|--|------|--|--|--|--|--|--|--|

100

DOCUMENT CONTROL

DC

Memo

0.00

Document Control

Photocopy bluefile & type labels per PPP 646.4001

| | | | | | | | | | |
|-----|----------|------|--|--|--|--|--|--|--|
| 110 | Pick Kit | 0.00 | | | | | | | |
|-----|----------|------|--|--|--|--|--|--|--|

110

Packaging

Memo

0.00

Packaging

| | | | | | | | | | |
|-----|---|------|--|--|--|--|--|--|--|
| 120 | QC4- 100% Inspect kits for completeness | 0.00 | | | | | | | |
|-----|---|------|--|--|--|--|--|--|--|

120

QC

Memo

0.00

Quality Control

DAS
16
3-28-13
Revised Kit
8

DAS
06
3-28-13
13-416

DAS
06
3-28-13
12-4-16

13-03-22 AB

NCR: Yes / No

WORK ORDER NON-CONFORMANCE / UPDATE

DQA: _____ Date: _____

QA Closed: _____ Date: _____

| | | | | | | | | | | | | | | | | | | |
|--|---|--|--------------------------------------|------------------------------------|------------------------------------|--------------------------------------|------------------------------------|------------------------------------|--|----------------------------------|--|------------------------------------|--|--------------------------------|------------------------------------|------------------------------------|-----------------------------------|--|
| Work Order: _____ Part No. _____ NCR No. _____ | DISPOSITION Rework <input type="checkbox"/> Scrap <input type="checkbox"/> Use-as-is <input type="checkbox"/> Work Order Update <input type="checkbox"/> | AGAINST DEPARTMENT/PROCESS <table style="width:100%;"> <tr> <td>Skid-tube <input type="checkbox"/></td> <td>Crosstube <input type="checkbox"/></td> <td>Water Jet <input type="checkbox"/></td> <td>Engineering <input type="checkbox"/></td> </tr> <tr> <td>Machining <input type="checkbox"/></td> <td>Small Fab <input type="checkbox"/></td> <td>Prod. Eng. Coord. <input type="checkbox"/></td> <td>Quality <input type="checkbox"/></td> </tr> <tr> <td>Thermoforming <input type="checkbox"/></td> <td>Finishing <input type="checkbox"/></td> <td>Rec/Store/Packaging <input type="checkbox"/></td> <td>Other <input type="checkbox"/></td> </tr> <tr> <td>Large Fab <input type="checkbox"/></td> <td>Composite <input type="checkbox"/></td> <td>Supplier <input type="checkbox"/></td> <td></td> </tr> </table> | Skid-tube <input type="checkbox"/> | Crosstube <input type="checkbox"/> | Water Jet <input type="checkbox"/> | Engineering <input type="checkbox"/> | Machining <input type="checkbox"/> | Small Fab <input type="checkbox"/> | Prod. Eng. Coord. <input type="checkbox"/> | Quality <input type="checkbox"/> | Thermoforming <input type="checkbox"/> | Finishing <input type="checkbox"/> | Rec/Store/Packaging <input type="checkbox"/> | Other <input type="checkbox"/> | Large Fab <input type="checkbox"/> | Composite <input type="checkbox"/> | Supplier <input type="checkbox"/> | |
| Skid-tube <input type="checkbox"/> | Crosstube <input type="checkbox"/> | Water Jet <input type="checkbox"/> | Engineering <input type="checkbox"/> | | | | | | | | | | | | | | | |
| Machining <input type="checkbox"/> | Small Fab <input type="checkbox"/> | Prod. Eng. Coord. <input type="checkbox"/> | Quality <input type="checkbox"/> | | | | | | | | | | | | | | | |
| Thermoforming <input type="checkbox"/> | Finishing <input type="checkbox"/> | Rec/Store/Packaging <input type="checkbox"/> | Other <input type="checkbox"/> | | | | | | | | | | | | | | | |
| Large Fab <input type="checkbox"/> | Composite <input type="checkbox"/> | Supplier <input type="checkbox"/> | | | | | | | | | | | | | | | | |

| Root Cause | Date | Step | Qty | Description of work order update or Non-conformance | Initial Chief Eng | Action Description | Sign & Date | Verification | QC Inspector |
|---------------|------|------|-----|---|-------------------|--------------------|-------------|--------------|--------------|
| Doc/Data | | | | | | | | | |
| Equip/Tooling | | | | | | | | | |
| Operator | | | | | | | | | |
| Material | | | | | | | | | |
| Setup | | | | | | | | | |
| Other | | | | | | | | | |
| Process | | | | | | | | | |
| Supplier | | | | | | | | | |
| Training | | | | | | | | | |
| Unapproved | | | | | | | | | |

FAULT CATEGORY

| Landing Gear | General | Other |
|---|---|--|
| <input type="checkbox"/> Bending | <input type="checkbox"/> Bend | <input type="checkbox"/> Grain |
| <input type="checkbox"/> Centre Not Concentric to O/S | <input type="checkbox"/> BOM/Route | <input type="checkbox"/> Hardware |
| <input type="checkbox"/> Cracks | <input type="checkbox"/> Broken/Damaged | <input type="checkbox"/> Inspection Incomplete |
| <input type="checkbox"/> Crushed/Crimped | <input type="checkbox"/> Burrs | <input type="checkbox"/> Instructions Incomplete/Unclear |
| <input type="checkbox"/> Cuffs | <input type="checkbox"/> Contamination | <input type="checkbox"/> Maintenance |
| <input type="checkbox"/> Heat Treat | <input type="checkbox"/> Countersink | <input type="checkbox"/> Mislabeled |
| <input type="checkbox"/> Inspection Strip in Tube | <input type="checkbox"/> Cut Too Short | <input type="checkbox"/> Misread |
| <input type="checkbox"/> Ripples in Bend | <input type="checkbox"/> Drill Holes | <input type="checkbox"/> Offset |
| <input type="checkbox"/> Torque Waves in Extrusion | <input type="checkbox"/> Drawing | <input type="checkbox"/> Out of Calibration |
| <input type="checkbox"/> Turning Sequence | <input type="checkbox"/> Finish | <input type="checkbox"/> Out of Sequence |
| <input type="checkbox"/> Wave/Twist in Tube | <input type="checkbox"/> Folio | <input type="checkbox"/> Outside Dimensions |
| | | <input type="checkbox"/> Ovalized |
| | | <input type="checkbox"/> Over/Under tolerance |
| | | <input type="checkbox"/> Part Incorrect |
| | | <input type="checkbox"/> Part Lost/Missing |
| | | <input type="checkbox"/> Part Moved |
| | | <input type="checkbox"/> Positioned Wrong |
| | | <input type="checkbox"/> Power Loss/Surge |
| | | <input type="checkbox"/> Pressure/Forced |
| | | <input type="checkbox"/> Temperature/Cure |
| | | <input type="checkbox"/> Weld |
| | | <input type="checkbox"/> Wrong Stock Pulled |
| | | <input type="checkbox"/> Other |

Work Order ID 98643

March-19-13 10:53:02 AM

98643

Page 2

Item ID: 646.4001

Accept

N900040100Setup Start ***NS1***

Revision ID:

Stop ***NS2***

Item Name: AS350 Cable Cutter

Start Date: 3/19/13 Start Qty: 1.00

1

Cust Item ID:

Required Date: 4/02/13 Req'd Qty: 1.00

1

Customer:

Reference:

Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____
QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Run Start ***NR1***
Stop ***NR2***

| Sequence ID/ Work Center ID | Operation Description | Set Up/ Run Hours | Tool ID | Tool # | Plan | Accept Qty | Reject Qty | Reject Number | Insp. Stamp |
|--------------------------------|---|----------------------|---------|--------|------|---------------|---------------|------------------|----------------|
| 130 | Packaging | 0.00 | | | | | | | |
| *130* | | | | | | | | | |
| Packaging | Memo | 0.00 | | | | | | | |
| Packaging | Identify and pack for shipping as per PPP 646.4001 Location: _____ | | | | | | | | |
| 140 | QC21- Final Inspection - Work Order Release | 0.00 | | | | | | | |
| *140* | | | | | | | | | |
| QC | Memo | 0.00 | | | | | | | |
| Quality Control | | | | | | | | | |

Date
06
9-13

13-04-16

MJS 13-04-16

MK
13-04-16

NCR: Yes / No

WORK ORDER NON-CONFORMANCE / UPDATE

DQA: _____ Date: _____

QA Closed: _____ Date: _____

| | | | | | | | | | | | | | | | | | | |
|--|---|---|--------------------------------------|------------------------------------|------------------------------------|--------------------------------------|------------------------------------|------------------------------------|--|----------------------------------|--|------------------------------------|--|--------------------------------|------------------------------------|------------------------------------|-----------------------------------|--|
| Work Order: _____ Part No. _____ NCR No. _____ | DISPOSITION Rework <input type="checkbox"/> Scrap <input type="checkbox"/> Use-as-is <input type="checkbox"/> Work Order Update <input type="checkbox"/> | AGAINST DEPARTMENT/PROCESS <table style="width: 100%;"> <tr> <td>Skid-tube <input type="checkbox"/></td> <td>Crosstube <input type="checkbox"/></td> <td>Water Jet <input type="checkbox"/></td> <td>Engineering <input type="checkbox"/></td> </tr> <tr> <td>Machining <input type="checkbox"/></td> <td>Small Fab <input type="checkbox"/></td> <td>Prod. Eng. Coord. <input type="checkbox"/></td> <td>Quality <input type="checkbox"/></td> </tr> <tr> <td>Thermoforming <input type="checkbox"/></td> <td>Finishing <input type="checkbox"/></td> <td>Rec/Store/Packaging <input type="checkbox"/></td> <td>Other <input type="checkbox"/></td> </tr> <tr> <td>Large Fab <input type="checkbox"/></td> <td>Composite <input type="checkbox"/></td> <td>Supplier <input type="checkbox"/></td> <td></td> </tr> </table> | Skid-tube <input type="checkbox"/> | Crosstube <input type="checkbox"/> | Water Jet <input type="checkbox"/> | Engineering <input type="checkbox"/> | Machining <input type="checkbox"/> | Small Fab <input type="checkbox"/> | Prod. Eng. Coord. <input type="checkbox"/> | Quality <input type="checkbox"/> | Thermoforming <input type="checkbox"/> | Finishing <input type="checkbox"/> | Rec/Store/Packaging <input type="checkbox"/> | Other <input type="checkbox"/> | Large Fab <input type="checkbox"/> | Composite <input type="checkbox"/> | Supplier <input type="checkbox"/> | |
| Skid-tube <input type="checkbox"/> | Crosstube <input type="checkbox"/> | Water Jet <input type="checkbox"/> | Engineering <input type="checkbox"/> | | | | | | | | | | | | | | | |
| Machining <input type="checkbox"/> | Small Fab <input type="checkbox"/> | Prod. Eng. Coord. <input type="checkbox"/> | Quality <input type="checkbox"/> | | | | | | | | | | | | | | | |
| Thermoforming <input type="checkbox"/> | Finishing <input type="checkbox"/> | Rec/Store/Packaging <input type="checkbox"/> | Other <input type="checkbox"/> | | | | | | | | | | | | | | | |
| Large Fab <input type="checkbox"/> | Composite <input type="checkbox"/> | Supplier <input type="checkbox"/> | | | | | | | | | | | | | | | | |

| Root Cause | Date | Step | Qty | Description of work order update or Non-conformance | Initial Chief Eng | Action Description | Sign & Date | Verification | QC Inspector |
|---------------|------|------|-----|---|-------------------|--------------------|-------------|--------------|--------------|
| Doc/Data | | | | | | | | | |
| Equip/Tooling | | | | | | | | | |
| Operator | | | | | | | | | |
| Material | | | | | | | | | |
| Setup | | | | | | | | | |
| Other | | | | | | | | | |
| Process | | | | | | | | | |
| Supplier | | | | | | | | | |
| Training | | | | | | | | | |
| Unapproved | | | | | | | | | |

FAULT CATEGORY

| Landing Gear | General | Other |
|---|---|--|
| <input type="checkbox"/> Bending | <input type="checkbox"/> Bend | <input type="checkbox"/> Grain |
| <input type="checkbox"/> Centre Not Concentric to O/S | <input type="checkbox"/> BOM/Route | <input type="checkbox"/> Hardware |
| <input type="checkbox"/> Cracks | <input type="checkbox"/> Broken/Damaged | <input type="checkbox"/> Inspection Incomplete |
| <input type="checkbox"/> Crushed/Crimped | <input type="checkbox"/> Burrs | <input type="checkbox"/> Instructions Incomplete/Unclear |
| <input type="checkbox"/> Cuffs | <input type="checkbox"/> Contamination | <input type="checkbox"/> Maintenance |
| <input type="checkbox"/> Heat Treat | <input type="checkbox"/> Countersink | <input type="checkbox"/> Mislabelled |
| <input type="checkbox"/> Inspection Strip in Tube | <input type="checkbox"/> Cut Too Short | <input type="checkbox"/> Misread |
| <input type="checkbox"/> Ripples in Bend | <input type="checkbox"/> Drill Holes | <input type="checkbox"/> Offset |
| <input type="checkbox"/> Torque Waves in Extrusion | <input type="checkbox"/> Drawing | <input type="checkbox"/> Out of Calibration |
| <input type="checkbox"/> Turning Sequence | <input type="checkbox"/> Finish | <input type="checkbox"/> Out of Sequence |
| <input type="checkbox"/> Wave/Twist in Tube | <input type="checkbox"/> Folio | <input type="checkbox"/> Outside Dimensions |
| | | <input type="checkbox"/> Ovalized |
| | | <input type="checkbox"/> Over/Under tolerance |
| | | <input type="checkbox"/> Part Incorrect |
| | | <input type="checkbox"/> Part Lost/Missing |
| | | <input type="checkbox"/> Part Moved |
| | | <input type="checkbox"/> Positioned Wrong |
| | | <input type="checkbox"/> Power Loss/Surge |
| | | <input type="checkbox"/> Pressure/Forced |
| | | <input type="checkbox"/> Temperature/Cure |
| | | <input type="checkbox"/> Weld |
| | | <input type="checkbox"/> Wrong Stock Pulled |
| | | <input type="checkbox"/> Other _____ |

Picklist Print

March-19-13 10:53:06 AM

Page 1

13

Work Order ID: 98643

98643

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter

Start Date: 3/19/13

Required Date: 4/02/13

Start Qty: 1.00

Required Qty: 1.00

Comments: IPP REV:A 12.10.23 NEW ISSUE DD VERF:JLM

| Component Item ID/ Item Name | Replacement Item ID | Mfg/ Purch | Bin Item | Primary Location | Last Location | Route Seq ID | Unit of Measure | Qty on Hand | Qty per Kit | Total Qty | Qty Issued | Date Issued | Status |
|-----------------------------------|------------------------|---------------|-------------|---------------------|------------------|-----------------|--------------------|----------------|-------------|--------------|---------------|----------------|--------|
| 646.3301 Upper Cutter Assembly | 646 3301 | Manufactured | No | | | | Each | 0.0000 | ** | 12083 | | | |
| 646.3001 Lower Cutter Assembly | 646 3001 | Manufactured | No | | | | Each | 0.0000 | ** | 12083 | | | |
| 646.2910 Deflector | 646 2910 | Manufactured | No | | | | Each | 0.0000 | ** | 12083 | | | |
| 646.3810 Bracket | 646 3810 | Manufactured | No | | | | Each | 0.0000 | ** | 12083 | | | |
| 646.3510 Strut | 646 3510 | Manufactured | No | | | | Each | 0.0000 | ** | 12083 | | | |
| 646.3511 Strut | 646 3511 | Manufactured | No | | | | Each | 0.0000 | ** | 12083 | | | |
| 646.3512 Strut | 646 3512 | Manufactured | No | | | | Each | 0.0000 | ** | 12083 | | | |
| 646.3513 Strut | 646 3513 | Manufactured | No | | | | Each | 0.0000 | ** | 12083 | | | |

NCR: Yes / No

WORK ORDER NON-CONFORMANCE / UPDATE

DQA: _____ Date: _____

QA Closed: _____ Date: _____

| | | | | | | | | | | | | | | | | | | |
|--|---|---|--------------------------------------|------------------------------------|------------------------------------|--------------------------------------|------------------------------------|------------------------------------|--|----------------------------------|--|------------------------------------|--|--------------------------------|------------------------------------|------------------------------------|-----------------------------------|--|
| Work Order: _____ Part No. _____ NCR No. _____ | DISPOSITION Rework <input type="checkbox"/> Scrap <input type="checkbox"/> Use-as-is <input type="checkbox"/> Work Order Update <input type="checkbox"/> | AGAINST DEPARTMENT/PROCESS <table style="width: 100%;"> <tr> <td>Skid-tube <input type="checkbox"/></td> <td>Crosstube <input type="checkbox"/></td> <td>Water Jet <input type="checkbox"/></td> <td>Engineering <input type="checkbox"/></td> </tr> <tr> <td>Machining <input type="checkbox"/></td> <td>Small Fab <input type="checkbox"/></td> <td>Prod. Eng. Coord. <input type="checkbox"/></td> <td>Quality <input type="checkbox"/></td> </tr> <tr> <td>Thermoforming <input type="checkbox"/></td> <td>Finishing <input type="checkbox"/></td> <td>Rec/Store/Packaging <input type="checkbox"/></td> <td>Other <input type="checkbox"/></td> </tr> <tr> <td>Large Fab <input type="checkbox"/></td> <td>Composite <input type="checkbox"/></td> <td>Supplier <input type="checkbox"/></td> <td></td> </tr> </table> | Skid-tube <input type="checkbox"/> | Crosstube <input type="checkbox"/> | Water Jet <input type="checkbox"/> | Engineering <input type="checkbox"/> | Machining <input type="checkbox"/> | Small Fab <input type="checkbox"/> | Prod. Eng. Coord. <input type="checkbox"/> | Quality <input type="checkbox"/> | Thermoforming <input type="checkbox"/> | Finishing <input type="checkbox"/> | Rec/Store/Packaging <input type="checkbox"/> | Other <input type="checkbox"/> | Large Fab <input type="checkbox"/> | Composite <input type="checkbox"/> | Supplier <input type="checkbox"/> | |
| Skid-tube <input type="checkbox"/> | Crosstube <input type="checkbox"/> | Water Jet <input type="checkbox"/> | Engineering <input type="checkbox"/> | | | | | | | | | | | | | | | |
| Machining <input type="checkbox"/> | Small Fab <input type="checkbox"/> | Prod. Eng. Coord. <input type="checkbox"/> | Quality <input type="checkbox"/> | | | | | | | | | | | | | | | |
| Thermoforming <input type="checkbox"/> | Finishing <input type="checkbox"/> | Rec/Store/Packaging <input type="checkbox"/> | Other <input type="checkbox"/> | | | | | | | | | | | | | | | |
| Large Fab <input type="checkbox"/> | Composite <input type="checkbox"/> | Supplier <input type="checkbox"/> | | | | | | | | | | | | | | | | |

| Root Cause | Date | Step | Qty | Description of work order update or Non-conformance | Initial Chief Eng | Action Description | Sign & Date | Verification | QC Inspector |
|--|------|------|-----|---|-------------------|--------------------|-------------|--------------|--------------|
| Doc/Data <input type="checkbox"/> | | | | | | | | | |
| Equip/Tooling <input type="checkbox"/> | | | | | | | | | |
| Operator <input type="checkbox"/> | | | | | | | | | |
| Material <input type="checkbox"/> | | | | | | | | | |
| Setup <input type="checkbox"/> | | | | | | | | | |
| Other <input type="checkbox"/> | | | | | | | | | |
| Process <input type="checkbox"/> | | | | | | | | | |
| Supplier <input type="checkbox"/> | | | | | | | | | |
| Training <input type="checkbox"/> | | | | | | | | | |
| Unapproved <input type="checkbox"/> | | | | | | | | | |

FAULT CATEGORY

| | | |
|---|---|---|
| Landing Gear <input type="checkbox"/> Bending <input type="checkbox"/> Centre Not Concentric to O/S <input type="checkbox"/> Cracks <input type="checkbox"/> Crushed/Crimped <input type="checkbox"/> Cuffs <input type="checkbox"/> Heat Treat <input type="checkbox"/> Inspection Strip in Tube <input type="checkbox"/> Ripples in Bend <input type="checkbox"/> Torque Waves in Extrusion <input type="checkbox"/> Turning Sequence <input type="checkbox"/> Wave/Twist in Tube | General <input type="checkbox"/> Bend <input type="checkbox"/> BOM/Route <input type="checkbox"/> Broken/Damaged <input type="checkbox"/> Burrs <input type="checkbox"/> Contamination <input type="checkbox"/> Countersink <input type="checkbox"/> Cut Too Short <input type="checkbox"/> Drill Holes <input type="checkbox"/> Drawing <input type="checkbox"/> Finish <input type="checkbox"/> Folio | <input type="checkbox"/> Grain <input type="checkbox"/> Hardware <input type="checkbox"/> Inspection Incomplete <input type="checkbox"/> Instructions Incomplete/Unclear <input type="checkbox"/> Maintenance <input type="checkbox"/> Mislabeled <input type="checkbox"/> Misread <input type="checkbox"/> Offset <input type="checkbox"/> Out of Calibration <input type="checkbox"/> Out of Sequence <input type="checkbox"/> Outside Dimensions |
|---|---|---|

| | |
|--|---|
| <input type="checkbox"/> Ovalized <input type="checkbox"/> Over/Under tolerance <input type="checkbox"/> Part Incorrect <input type="checkbox"/> Part Lost/Missing <input type="checkbox"/> Part Moved <input type="checkbox"/> Positioned Wrong <input type="checkbox"/> Power Loss/Surge | <input type="checkbox"/> Pressure/Forced <input type="checkbox"/> Temperature/Cure <input type="checkbox"/> Weld <input type="checkbox"/> Wrong Stock Pulled <input type="checkbox"/> Other |
|--|---|

Picklist Print

March-19-13 10:53:06 AM

Work Order ID: 98643

Parent Item: 646.4001

Parent Item Name: AS350 Cable Cutter

98643

646 4001

Start Date: 3/19/13

Required Date: 4/02/13

Start Qty: 1.00

Required Qty: 1.00

NAS1149F0332P

Purchased

No

Each

10,454.00

NAS1149F0332P

**



90



Location

Loc Qty

Loc Code

GA

182

122063

182

ST294

269

122063

269

ST295

3

123352

3

st510

10000

123900

10000

Each

6,289.000

123900



90

13-03-22

MS21042L3

Purchased

No

MS21042L3

**

Location

Loc Qty

Loc Code

FP001

3

122141

3

GA

212

122452

212

ST314

268

117885

32

119017

55

119075

138

123265

43

ST506

5806

123900

1806

124291

4000

123900

NCR: Yes / No

WORK ORDER NON-CONFORMANCE / UPDATE

DQA: _____ Date: _____

QA Closed: _____ Date: _____

| | | | | | | | | | | | |
|---|-------------|-------------|---|---|--------------------------|---|------------------------|---------------------|---|--|--|
| Work Order: _____ Part No. _____ NCR No. _____ | | | | DISPOSITION Rework <input type="checkbox"/> Scrap <input type="checkbox"/> Use-as-is <input type="checkbox"/> Work Order Update <input type="checkbox"/> | | AGAINST DEPARTMENT/PROCESS <div style="display: flex; justify-content: space-between;"> <div> Skid-tube <input type="checkbox"/> Machining <input type="checkbox"/> Thermoforming <input type="checkbox"/> Large Fab <input type="checkbox"/> </div> <div> Crosstube <input type="checkbox"/> Small Fab <input type="checkbox"/> Finishing <input type="checkbox"/> Composite <input type="checkbox"/> </div> <div> Water Jet <input type="checkbox"/> Prod. Eng. Coord. <input type="checkbox"/> Rec/Store/Packaging <input type="checkbox"/> Supplier <input type="checkbox"/> </div> <div> Engineering <input type="checkbox"/> Quality <input type="checkbox"/> Other <input type="checkbox"/> </div> </div> | | | | | |
| Root Cause | Date | Step | Qty | Description of work order update or Non-conformance | Initial Chief Eng | Action Description | Sign & Date | Verification | QC Inspector | | |
| Doc/Data <input type="checkbox"/> | | | | | | | | | | | |
| Equip/Tooling <input type="checkbox"/> | | | | | | | | | | | |
| Operator <input type="checkbox"/> | | | | | | | | | | | |
| Material <input type="checkbox"/> | | | | | | | | | | | |
| Setup <input type="checkbox"/> | | | | | | | | | | | |
| Other <input type="checkbox"/> | | | | | | | | | | | |
| Process <input type="checkbox"/> | | | | | | | | | | | |
| Supplier <input type="checkbox"/> | | | | | | | | | | | |
| Training <input type="checkbox"/> | | | | | | | | | | | |
| Unapproved <input type="checkbox"/> | | | | | | | | | | | |
| FAULT CATEGORY | | | | | | | | | | | |
| Landing Gear <input type="checkbox"/> Bending <input type="checkbox"/> Centre Not Concentric to O/S <input type="checkbox"/> Cracks <input type="checkbox"/> Crushed/Crimped <input type="checkbox"/> Cuffs <input type="checkbox"/> Heat Treat <input type="checkbox"/> Inspection Strip in Tube <input type="checkbox"/> Ripples in Bend <input type="checkbox"/> Torque Waves in Extrusion <input type="checkbox"/> Turning Sequence <input type="checkbox"/> Wave/Twist in Tube | | | General <input type="checkbox"/> Bend <input type="checkbox"/> BOM/Route <input type="checkbox"/> Broken/Damaged <input type="checkbox"/> Burrs <input type="checkbox"/> Contamination <input type="checkbox"/> Countersink <input type="checkbox"/> Cut Too Short <input type="checkbox"/> Drill Holes <input type="checkbox"/> Drawing <input type="checkbox"/> Finish <input type="checkbox"/> Folio | | | <input type="checkbox"/> Grain <input type="checkbox"/> Hardware <input type="checkbox"/> Inspection Incomplete <input type="checkbox"/> Instructions Incomplete/Unclear <input type="checkbox"/> Maintenance <input type="checkbox"/> Mislabeled <input type="checkbox"/> Misread <input type="checkbox"/> Offset <input type="checkbox"/> Out of Calibration <input type="checkbox"/> Out of Sequence <input type="checkbox"/> Outside Dimensions | | | <input type="checkbox"/> Ovalized <input type="checkbox"/> Over/Under tolerance <input type="checkbox"/> Part Incorrect <input type="checkbox"/> Part Lost/Missing <input type="checkbox"/> Part Moved <input type="checkbox"/> Positioned Wrong <input type="checkbox"/> Power Loss/Surge <input type="checkbox"/> Pressure/Forced <input type="checkbox"/> Temperature/Cure <input type="checkbox"/> Weld <input type="checkbox"/> Wrong Stock Pulled <input type="checkbox"/> Other | | |

Picklist Print

March-19-13 10:53:06 AM

Work Order ID: 98643

Parent Item: 646.4001

Parent Item Name: AS350 Cable Cutter

98643

646 4001

Start Date: 3/19/13

Required Date: 4/02/13

Start Qty: 1.00

Required Qty: 1.00

646.3110

Manufactured No

Each 10.0000

~~*646 3110*~~
Channel

**

Location

Loc Qty

Loc Code

ST139B

10

92768

10

646.3710

Manufactured No

Each 0.0000

~~*646 3710*~~
Doubler

**

646.3210

Manufactured No

Each 0.0000

~~*646 3210*~~
Support

**

646.3713

Manufactured No

Each 0.0000

~~*646 3713*~~
Gusset

**

MS24694-S51

Purchased No

Each 196.0000

~~*MS24694-S51*~~
Screw

**

Location

Loc Qty

Loc Code

ST303

196

116805

1

123741

195

AN3-13A

Purchased No

Each 106.0000

~~*AN3-13A*~~
Bolt

**

Location

Loc Qty

Loc Code

ST351

56

104746

26

120910

30

ST512

50

123759

50

NCR: Yes / No

WORK ORDER NON-CONFORMANCE / UPDATE

DQA: _____ Date: _____

QA Closed: _____ Date: _____

| | | | | | | | | | | | | |
|---|------|------|---|---|-------------------|---|-------------|--------------|---|--|--|--|
| Work Order: _____ Part No. _____ NCR No. _____ | | | | DISPOSITION Rework <input type="checkbox"/> Scrap <input type="checkbox"/> Use-as-is <input type="checkbox"/> Work Order Update <input type="checkbox"/> | | AGAINST DEPARTMENT/PROCESS <div style="display: flex; justify-content: space-between;"> <div> Skid-tube <input type="checkbox"/> Machining <input type="checkbox"/> Thermoforming <input type="checkbox"/> Large Fab <input type="checkbox"/> </div> <div> Crosstube <input type="checkbox"/> Small Fab <input type="checkbox"/> Finishing <input type="checkbox"/> Composite <input type="checkbox"/> </div> <div> Water Jet <input type="checkbox"/> Prod. Eng. Coord. <input type="checkbox"/> Rec/Store/Packaging <input type="checkbox"/> Supplier <input type="checkbox"/> </div> <div> Engineering <input type="checkbox"/> Quality <input type="checkbox"/> Other <input type="checkbox"/> </div> </div> | | | | | | |
| Root Cause | Date | Step | Qty | Description of work order update or Non-conformance | Initial Chief Eng | Action Description | Sign & Date | Verification | QC Inspector | | | |
| Doc/Data <input type="checkbox"/> | | | | | | | | | | | | |
| Equip/Tooling <input type="checkbox"/> | | | | | | | | | | | | |
| Operator <input type="checkbox"/> | | | | | | | | | | | | |
| Material <input type="checkbox"/> | | | | | | | | | | | | |
| Setup <input type="checkbox"/> | | | | | | | | | | | | |
| Other <input type="checkbox"/> | | | | | | | | | | | | |
| Process <input type="checkbox"/> | | | | | | | | | | | | |
| Supplier <input type="checkbox"/> | | | | | | | | | | | | |
| Training <input type="checkbox"/> | | | | | | | | | | | | |
| Unapproved <input type="checkbox"/> | | | | | | | | | | | | |
| FAULT CATEGORY | | | | | | | | | | | | |
| Landing Gear <input type="checkbox"/> Bending <input type="checkbox"/> Centre Not Concentric to O/S <input type="checkbox"/> Cracks <input type="checkbox"/> Crushed/Crimped <input type="checkbox"/> Cuffs <input type="checkbox"/> Heat Treat <input type="checkbox"/> Inspection Strip in Tube <input type="checkbox"/> Ripples in Bend <input type="checkbox"/> Torque Waves in Extrusion <input type="checkbox"/> Turning Sequence <input type="checkbox"/> Wave/Twist in Tube | | | General <input type="checkbox"/> Bend <input type="checkbox"/> BOM/Route <input type="checkbox"/> Broken/Damaged <input type="checkbox"/> Burrs <input type="checkbox"/> Contamination <input type="checkbox"/> Countersink <input type="checkbox"/> Cut Too Short <input type="checkbox"/> Drill Holes <input type="checkbox"/> Drawing <input type="checkbox"/> Finish <input type="checkbox"/> Folio | | | <input type="checkbox"/> Grain <input type="checkbox"/> Hardware <input type="checkbox"/> Inspection Incomplete <input type="checkbox"/> Instructions Incomplete/Unclear <input type="checkbox"/> Maintenance <input type="checkbox"/> Mislabeled <input type="checkbox"/> Misread <input type="checkbox"/> Offset <input type="checkbox"/> Out of Calibration <input type="checkbox"/> Out of Sequence <input type="checkbox"/> Outside Dimensions | | | <input type="checkbox"/> Ovalized <input type="checkbox"/> Over/Under tolerance <input type="checkbox"/> Part Incorrect <input type="checkbox"/> Part Lost/Missing <input type="checkbox"/> Part Moved <input type="checkbox"/> Positioned Wrong <input type="checkbox"/> Power Loss/Surge <hr/> <hr/> <hr/> | | <input type="checkbox"/> Pressure/Forced <input type="checkbox"/> Temperature/Cure <input type="checkbox"/> Weld <input type="checkbox"/> Wrong Stock Pulled <input type="checkbox"/> Other <hr/> <hr/> <hr/> | |

Picklist Print

March-19-13 10:53:06 AM

Work Order ID: 98643

Parent Item: 646.4001

Parent Item Name: AS350 Cable Cutter

98643

646 4001

Start Date: 3/19/13

Required Date: 4/02/13

Start Qty: 1.00

Required Qty: 1.00

AN3-4A

Purchased

No

Each

651.0000

**

AN3-4A

Bolt

Location

Loc Qty

Loc Code

ST350

318

120308

80

122814

38

124858

200

ST512

333

120770

200

123900

133

CR3213-5-3

Purchased

No

Each

300.0000

**

CR3213-5-3

Cherry Rivet

Location

Loc Qty

Loc Code

ST329

300

123785

300

MS20470AD5-5.5

Purchased

No

Each

813.0000

**

MS20470AD5-5.5

Rivet

Location

Loc Qty

Loc Code

ST336

813

123425

813

646.3711

Manufactured

No

Each

0.0000

**

646 3711

Clip

646.3712

Manufactured

No

Each

0.0000

**

646 3712

Clip

NCR: Yes / No

WORK ORDER NON-CONFORMANCE / UPDATE

DQA: _____ Date: _____

QA Closed: _____ Date: _____

| | | | | | | | | | | | | | | | | | | |
|--|---|--|--------------------------------------|------------------------------------|------------------------------------|--------------------------------------|------------------------------------|------------------------------------|--|----------------------------------|--|------------------------------------|--|--------------------------------|------------------------------------|------------------------------------|-----------------------------------|--|
| Work Order: _____ Part No. _____ NCR No. _____ | DISPOSITION Rework <input type="checkbox"/> Scrap <input type="checkbox"/> Use-as-is <input type="checkbox"/> Work Order Update <input type="checkbox"/> | AGAINST DEPARTMENT/PROCESS <table style="width:100%; border: none;"> <tr> <td style="width:15%;">Skid-tube <input type="checkbox"/></td> <td style="width:15%;">Crosstube <input type="checkbox"/></td> <td style="width:15%;">Water Jet <input type="checkbox"/></td> <td style="width:15%;">Engineering <input type="checkbox"/></td> </tr> <tr> <td>Machining <input type="checkbox"/></td> <td>Small Fab <input type="checkbox"/></td> <td>Prod. Eng. Coord. <input type="checkbox"/></td> <td>Quality <input type="checkbox"/></td> </tr> <tr> <td>Thermoforming <input type="checkbox"/></td> <td>Finishing <input type="checkbox"/></td> <td>Rec/Store/Packaging <input type="checkbox"/></td> <td>Other <input type="checkbox"/></td> </tr> <tr> <td>Large Fab <input type="checkbox"/></td> <td>Composite <input type="checkbox"/></td> <td>Supplier <input type="checkbox"/></td> <td></td> </tr> </table> | Skid-tube <input type="checkbox"/> | Crosstube <input type="checkbox"/> | Water Jet <input type="checkbox"/> | Engineering <input type="checkbox"/> | Machining <input type="checkbox"/> | Small Fab <input type="checkbox"/> | Prod. Eng. Coord. <input type="checkbox"/> | Quality <input type="checkbox"/> | Thermoforming <input type="checkbox"/> | Finishing <input type="checkbox"/> | Rec/Store/Packaging <input type="checkbox"/> | Other <input type="checkbox"/> | Large Fab <input type="checkbox"/> | Composite <input type="checkbox"/> | Supplier <input type="checkbox"/> | |
| Skid-tube <input type="checkbox"/> | Crosstube <input type="checkbox"/> | Water Jet <input type="checkbox"/> | Engineering <input type="checkbox"/> | | | | | | | | | | | | | | | |
| Machining <input type="checkbox"/> | Small Fab <input type="checkbox"/> | Prod. Eng. Coord. <input type="checkbox"/> | Quality <input type="checkbox"/> | | | | | | | | | | | | | | | |
| Thermoforming <input type="checkbox"/> | Finishing <input type="checkbox"/> | Rec/Store/Packaging <input type="checkbox"/> | Other <input type="checkbox"/> | | | | | | | | | | | | | | | |
| Large Fab <input type="checkbox"/> | Composite <input type="checkbox"/> | Supplier <input type="checkbox"/> | | | | | | | | | | | | | | | | |

| Root Cause | Date | Step | Qty | Description of work order update or Non-conformance | Initial Chief Eng | Action Description | Sign & Date | Verification | QC Inspector |
|---------------|------|------|-----|---|-------------------|--------------------|-------------|--------------|--------------|
| Doc/Data | | | | | | | | | |
| Equip/Tooling | | | | | | | | | |
| Operator | | | | | | | | | |
| Material | | | | | | | | | |
| Setup | | | | | | | | | |
| Other | | | | | | | | | |
| Process | | | | | | | | | |
| Supplier | | | | | | | | | |
| Training | | | | | | | | | |
| Unapproved | | | | | | | | | |

FAULT CATEGORY

| | | |
|---|---|---|
| Landing Gear <input type="checkbox"/> Bending <input type="checkbox"/> Centre Not Concentric to O/S <input type="checkbox"/> Cracks <input type="checkbox"/> Crushed/Crimped <input type="checkbox"/> Cuffs <input type="checkbox"/> Heat Treat <input type="checkbox"/> Inspection Strip in Tube <input type="checkbox"/> Ripples in Bend <input type="checkbox"/> Torque Waves in Extrusion <input type="checkbox"/> Turning Sequence <input type="checkbox"/> Wave/Twist in Tube | General <input type="checkbox"/> Bend <input type="checkbox"/> BOM/Route <input type="checkbox"/> Broken/Damaged <input type="checkbox"/> Burrs <input type="checkbox"/> Contamination <input type="checkbox"/> Countersink <input type="checkbox"/> Cut Too Short <input type="checkbox"/> Drill Holes <input type="checkbox"/> Drawing <input type="checkbox"/> Finish <input type="checkbox"/> Folio | <input type="checkbox"/> Grain <input type="checkbox"/> Hardware <input type="checkbox"/> Inspection Incomplete <input type="checkbox"/> Instructions Incomplete/Unclear <input type="checkbox"/> Maintenance <input type="checkbox"/> Mislabeled <input type="checkbox"/> Misread <input type="checkbox"/> Offset <input type="checkbox"/> Out of Calibration <input type="checkbox"/> Out of Sequence <input type="checkbox"/> Outside Dimensions |
|---|---|---|

☐ Ovalized
☐ Over/Under tolerance
☐ Part Incorrect
☐ Part Lost/Missing
☐ Part Moved
☐ Positioned Wrong
☐ Power Loss/Surge

☐ Pressure/Forced
☐ Temperature/Cure
☐ Weld
☐ Wrong Stock Pulled
☐ Other

Picklist Print

March-19-13 10:53:07 AM

Work Order ID: 98643

98643

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter

Start Date: 3/19/13

Required Date: 4/02/13

Start Qty: 1.00

Required Qty: 1.00

646.3811

Manufactured No

Each 0.0000

646 3811 S4

Radius Block

AN3-6A

Purchased No

Each 483.0000

AN3-6A

Bolt

Location

Loc Qty

Loc Code

ST350

300

124296

300

ST351

61

117441

34

121166

13

122993

10

123831

4

ST512

122

122814

122

MS24694-S55

Purchased No

Each 119.0000

MS24694-S55

Screw

Location

Loc Qty

Loc Code

ST303

119

123758

1

124296

118

646.3610

Manufactured No

Each 0.0000

646 3610 S4

Filler

646.3714

Manufactured No

Each 0.0000

646 3714 S4

Gusset

NCR: Yes / No

WORK ORDER NON-CONFORMANCE / UPDATE

DQA: _____ Date: _____

QA Closed: _____ Date: _____

| | | | | | | | | | | | | | | | | | | |
|--|---|--|--------------------------------------|------------------------------------|------------------------------------|--------------------------------------|------------------------------------|------------------------------------|--|----------------------------------|--|------------------------------------|--|--------------------------------|------------------------------------|------------------------------------|-----------------------------------|--|
| Work Order: _____ Part No. _____ NCR No. _____ | DISPOSITION Rework <input type="checkbox"/> Scrap <input type="checkbox"/> Use-as-is <input type="checkbox"/> Work Order Update <input type="checkbox"/> | AGAINST DEPARTMENT/PROCESS <table style="width:100%; border: none;"> <tr> <td style="width:15%;">Skid-tube <input type="checkbox"/></td> <td style="width:15%;">Crosstube <input type="checkbox"/></td> <td style="width:15%;">Water Jet <input type="checkbox"/></td> <td style="width:15%;">Engineering <input type="checkbox"/></td> </tr> <tr> <td>Machining <input type="checkbox"/></td> <td>Small Fab <input type="checkbox"/></td> <td>Prod. Eng. Coord. <input type="checkbox"/></td> <td>Quality <input type="checkbox"/></td> </tr> <tr> <td>Thermoforming <input type="checkbox"/></td> <td>Finishing <input type="checkbox"/></td> <td>Rec/Store/Packaging <input type="checkbox"/></td> <td>Other <input type="checkbox"/></td> </tr> <tr> <td>Large Fab <input type="checkbox"/></td> <td>Composite <input type="checkbox"/></td> <td>Supplier <input type="checkbox"/></td> <td></td> </tr> </table> | Skid-tube <input type="checkbox"/> | Crosstube <input type="checkbox"/> | Water Jet <input type="checkbox"/> | Engineering <input type="checkbox"/> | Machining <input type="checkbox"/> | Small Fab <input type="checkbox"/> | Prod. Eng. Coord. <input type="checkbox"/> | Quality <input type="checkbox"/> | Thermoforming <input type="checkbox"/> | Finishing <input type="checkbox"/> | Rec/Store/Packaging <input type="checkbox"/> | Other <input type="checkbox"/> | Large Fab <input type="checkbox"/> | Composite <input type="checkbox"/> | Supplier <input type="checkbox"/> | |
| Skid-tube <input type="checkbox"/> | Crosstube <input type="checkbox"/> | Water Jet <input type="checkbox"/> | Engineering <input type="checkbox"/> | | | | | | | | | | | | | | | |
| Machining <input type="checkbox"/> | Small Fab <input type="checkbox"/> | Prod. Eng. Coord. <input type="checkbox"/> | Quality <input type="checkbox"/> | | | | | | | | | | | | | | | |
| Thermoforming <input type="checkbox"/> | Finishing <input type="checkbox"/> | Rec/Store/Packaging <input type="checkbox"/> | Other <input type="checkbox"/> | | | | | | | | | | | | | | | |
| Large Fab <input type="checkbox"/> | Composite <input type="checkbox"/> | Supplier <input type="checkbox"/> | | | | | | | | | | | | | | | | |

| Root Cause | Date | Step | Qty | Description of work order update or Non-conformance | Initial Chief Eng | Action Description | Sign & Date | Verification | QC Inspector |
|--|------|------|-----|---|-------------------|--------------------|-------------|--------------|--------------|
| Doc/Data <input type="checkbox"/> | | | | | | | | | |
| Equip/Tooling <input type="checkbox"/> | | | | | | | | | |
| Operator <input type="checkbox"/> | | | | | | | | | |
| Material <input type="checkbox"/> | | | | | | | | | |
| Setup <input type="checkbox"/> | | | | | | | | | |
| Other <input type="checkbox"/> | | | | | | | | | |
| Process <input type="checkbox"/> | | | | | | | | | |
| Supplier <input type="checkbox"/> | | | | | | | | | |
| Training <input type="checkbox"/> | | | | | | | | | |
| Unapproved <input type="checkbox"/> | | | | | | | | | |

FAULT CATEGORY

| | | |
|---|---|---|
| Landing Gear <input type="checkbox"/> Bending <input type="checkbox"/> Centre Not Concentric to O/S <input type="checkbox"/> Cracks <input type="checkbox"/> Crushed/Crimped <input type="checkbox"/> Cuffs <input type="checkbox"/> Heat Treat <input type="checkbox"/> Inspection Strip in Tube <input type="checkbox"/> Ripples in Bend <input type="checkbox"/> Torque Waves in Extrusion <input type="checkbox"/> Turning Sequence <input type="checkbox"/> Wave/Twist in Tube | General <input type="checkbox"/> Bend <input type="checkbox"/> BOM/Route <input type="checkbox"/> Broken/Damaged <input type="checkbox"/> Burrs <input type="checkbox"/> Contamination <input type="checkbox"/> Countersink <input type="checkbox"/> Cut Too Short <input type="checkbox"/> Drill Holes <input type="checkbox"/> Drawing <input type="checkbox"/> Finish <input type="checkbox"/> Folio | <input type="checkbox"/> Grain <input type="checkbox"/> Hardware <input type="checkbox"/> Inspection Incomplete <input type="checkbox"/> Instructions Incomplete/Unclear <input type="checkbox"/> Maintenance <input type="checkbox"/> Mislabeled <input type="checkbox"/> Misread <input type="checkbox"/> Offset <input type="checkbox"/> Out of Calibration <input type="checkbox"/> Out of Sequence <input type="checkbox"/> Outside Dimensions |
| <input type="checkbox"/> Ovalized <input type="checkbox"/> Over/Under tolerance <input type="checkbox"/> Part Incorrect <input type="checkbox"/> Part Lost/Missing <input type="checkbox"/> Part Moved <input type="checkbox"/> Positioned Wrong <input type="checkbox"/> Power Loss/Surge | | |
| <input type="checkbox"/> Pressure/Forced <input type="checkbox"/> Temperature/Cure <input type="checkbox"/> Weld <input type="checkbox"/> Wrong Stock Pulled <input type="checkbox"/> Other | | |

Picklist Print

March-19-13 10:53:07 AM

Page 6

Work Order ID: 98643

Parent Item: 646.4001

Parent Item Name: AS350 Cable Cutter

98643

646 4001

Start Date: 3/19/13

Required Date: 4/02/13

Start Qty: 1.00

Required Qty: 1.00

MS20470AD5-6

Purchased

No

Each

1.836.000

MS20470AD5-6

Rivet

**

Location

Loc Qty

Loc Code

ST336

1836

105433

946

124089

890

646.3812

Manufactured

No

Each

0.0000

646 3812

Gusset Bracket

**

AN3-3A

Purchased

No

Each

408.0000

AN3-3A

Bolt

**

Location

Loc Qty

Loc Code

ST350

408

123831

108

124221

200

124552

100

646.3813

Manufactured

No

Each

10.0000

646 3813

Strut Bracket

**

Location

Loc Qty

Loc Code

ST139d

10

93252

10

MS20470AD5-6

Rivet

M123720



NCR: Yes / No

WORK ORDER NON-CONFORMANCE / UPDATE

DQA: _____ Date: _____

QA Closed: _____ Date: _____

| | | | | | | | | | | | | | | | | | | |
|--|---|---|--------------------------------------|------------------------------------|------------------------------------|--------------------------------------|------------------------------------|------------------------------------|--|----------------------------------|--|------------------------------------|--|--------------------------------|------------------------------------|------------------------------------|-----------------------------------|--|
| Work Order: _____ Part No. _____ NCR No. _____ | DISPOSITION Rework <input type="checkbox"/> Scrap <input type="checkbox"/> Use-as-is <input type="checkbox"/> Work Order Update <input type="checkbox"/> | AGAINST DEPARTMENT/PROCESS <table style="width: 100%;"> <tr> <td>Skid-tube <input type="checkbox"/></td> <td>Crosstube <input type="checkbox"/></td> <td>Water Jet <input type="checkbox"/></td> <td>Engineering <input type="checkbox"/></td> </tr> <tr> <td>Machining <input type="checkbox"/></td> <td>Small Fab <input type="checkbox"/></td> <td>Prod. Eng. Coord. <input type="checkbox"/></td> <td>Quality <input type="checkbox"/></td> </tr> <tr> <td>Thermoforming <input type="checkbox"/></td> <td>Finishing <input type="checkbox"/></td> <td>Rec/Store/Packaging <input type="checkbox"/></td> <td>Other <input type="checkbox"/></td> </tr> <tr> <td>Large Fab <input type="checkbox"/></td> <td>Composite <input type="checkbox"/></td> <td>Supplier <input type="checkbox"/></td> <td></td> </tr> </table> | Skid-tube <input type="checkbox"/> | Crosstube <input type="checkbox"/> | Water Jet <input type="checkbox"/> | Engineering <input type="checkbox"/> | Machining <input type="checkbox"/> | Small Fab <input type="checkbox"/> | Prod. Eng. Coord. <input type="checkbox"/> | Quality <input type="checkbox"/> | Thermoforming <input type="checkbox"/> | Finishing <input type="checkbox"/> | Rec/Store/Packaging <input type="checkbox"/> | Other <input type="checkbox"/> | Large Fab <input type="checkbox"/> | Composite <input type="checkbox"/> | Supplier <input type="checkbox"/> | |
| Skid-tube <input type="checkbox"/> | Crosstube <input type="checkbox"/> | Water Jet <input type="checkbox"/> | Engineering <input type="checkbox"/> | | | | | | | | | | | | | | | |
| Machining <input type="checkbox"/> | Small Fab <input type="checkbox"/> | Prod. Eng. Coord. <input type="checkbox"/> | Quality <input type="checkbox"/> | | | | | | | | | | | | | | | |
| Thermoforming <input type="checkbox"/> | Finishing <input type="checkbox"/> | Rec/Store/Packaging <input type="checkbox"/> | Other <input type="checkbox"/> | | | | | | | | | | | | | | | |
| Large Fab <input type="checkbox"/> | Composite <input type="checkbox"/> | Supplier <input type="checkbox"/> | | | | | | | | | | | | | | | | |

| Root Cause | Date | Step | Qty | Description of work order update or Non-conformance | Initial Chief Eng | Action Description | Sign & Date | Verification | QC Inspector |
|--|------|------|-----|---|-------------------|--------------------|-------------|--------------|--------------|
| Doc/Data <input type="checkbox"/> | | | | | | | | | |
| Equip/Tooling <input type="checkbox"/> | | | | | | | | | |
| Operator <input type="checkbox"/> | | | | | | | | | |
| Material <input type="checkbox"/> | | | | | | | | | |
| Setup <input type="checkbox"/> | | | | | | | | | |
| Other <input type="checkbox"/> | | | | | | | | | |
| Process <input type="checkbox"/> | | | | | | | | | |
| Supplier <input type="checkbox"/> | | | | | | | | | |
| Training <input type="checkbox"/> | | | | | | | | | |
| Unapproved <input type="checkbox"/> | | | | | | | | | |

FAULT CATEGORY

| | | |
|---|---|---|
| Landing Gear <input type="checkbox"/> Bending <input type="checkbox"/> Centre Not Concentric to O/S <input type="checkbox"/> Cracks <input type="checkbox"/> Crushed/Crimped <input type="checkbox"/> Cuffs <input type="checkbox"/> Heat Treat <input type="checkbox"/> Inspection Strip in Tube <input type="checkbox"/> Ripples in Bend <input type="checkbox"/> Torque Waves in Extrusion <input type="checkbox"/> Turning Sequence <input type="checkbox"/> Wave/Twist in Tube | General <input type="checkbox"/> Bend <input type="checkbox"/> BOM/Route <input type="checkbox"/> Broken/Damaged <input type="checkbox"/> Burrs <input type="checkbox"/> Contamination <input type="checkbox"/> Countersink <input type="checkbox"/> Cut Too Short <input type="checkbox"/> Drill Holes <input type="checkbox"/> Drawing <input type="checkbox"/> Finish <input type="checkbox"/> Folio | <input type="checkbox"/> Grain <input type="checkbox"/> Hardware <input type="checkbox"/> Inspection Incomplete <input type="checkbox"/> Instructions Incomplete/Unclear <input type="checkbox"/> Maintenance <input type="checkbox"/> Mislabeled <input type="checkbox"/> Misread <input type="checkbox"/> Offset <input type="checkbox"/> Out of Calibration <input type="checkbox"/> Out of Sequence <input type="checkbox"/> Outside Dimensions |
|---|---|---|

| | |
|--|---|
| <input type="checkbox"/> Ovalized <input type="checkbox"/> Over/Under tolerance <input type="checkbox"/> Part Incorrect <input type="checkbox"/> Part Lost/Missing <input type="checkbox"/> Part Moved <input type="checkbox"/> Positioned Wrong <input type="checkbox"/> Power Loss/Surge | <input type="checkbox"/> Pressure/Forced <input type="checkbox"/> Temperature/Cure <input type="checkbox"/> Weld <input type="checkbox"/> Wrong Stock Pulled <input type="checkbox"/> Other |
|--|---|

Picklist Print

March-19-13 10:53:07 AM

Work Order ID: 98643

98643

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter

Start Date: 3/19/13

Required Date: 4/02/13

Start Qty: 1.00

Required Qty: 1.00

MS21047-3

Purchased

No

Each

625.0000

**

~~*MS21047-3*~~
NUT PLATE

Location

Loc Qty

Loc Code

ST316

625

123268

75

123301

50

123522

500

Each

1,100.000

**

CCR264SS3-02

Purchased

No

~~*CCR264SS3-02*~~
Rivet, Cherry

Location

Loc Qty

Loc Code

ST327

1100

106578

100

123785

600

124231

200

124259

200

Each

1,096.000

**

AN3-5A

Purchased

No

~~*AN3-5A*~~
Bolt

Location

Loc Qty

Loc Code

FP001

32

122800

32

GA

120

117423

120

ST350

22

120187

22

ST512

922

122416

122

124561

800

NCR: Yes / No

WORK ORDER NON-CONFORMANCE / UPDATE

DQA: _____ Date: _____

QA Closed: _____ Date: _____

| | | | | | | | | | | | |
|---|------|------|---|---|-------------------|---|-------------|--------------|---|--|--|
| Work Order: _____ Part No. _____ NCR No. _____ | | | | DISPOSITION Rework <input type="checkbox"/> Scrap <input type="checkbox"/> Use-as-is <input type="checkbox"/> Work Order Update <input type="checkbox"/> | | AGAINST DEPARTMENT/PROCESS <div style="display: flex; justify-content: space-between;"> <div> Skid-tube <input type="checkbox"/> Machining <input type="checkbox"/> Thermoforming <input type="checkbox"/> Large Fab <input type="checkbox"/> </div> <div> Crosstube <input type="checkbox"/> Small Fab <input type="checkbox"/> Finishing <input type="checkbox"/> Composite <input type="checkbox"/> </div> <div> Water Jet <input type="checkbox"/> Prod. Eng. Coord. <input type="checkbox"/> Rec/Store/Packaging <input type="checkbox"/> Supplier <input type="checkbox"/> </div> <div> Engineering <input type="checkbox"/> Quality <input type="checkbox"/> Other <input type="checkbox"/> </div> </div> | | | | | |
| Root Cause | Date | Step | Qty | Description of work order update or Non-conformance | Initial Chief Eng | Action Description | Sign & Date | Verification | QC Inspector | | |
| Doc/Data <input type="checkbox"/> | | | | | | | | | | | |
| Equip/Tooling <input type="checkbox"/> | | | | | | | | | | | |
| Operator <input type="checkbox"/> | | | | | | | | | | | |
| Material <input type="checkbox"/> | | | | | | | | | | | |
| Setup <input type="checkbox"/> | | | | | | | | | | | |
| Other <input type="checkbox"/> | | | | | | | | | | | |
| Process <input type="checkbox"/> | | | | | | | | | | | |
| Supplier <input type="checkbox"/> | | | | | | | | | | | |
| Training <input type="checkbox"/> | | | | | | | | | | | |
| Unapproved <input type="checkbox"/> | | | | | | | | | | | |
| FAULT CATEGORY | | | | | | | | | | | |
| Landing Gear <input type="checkbox"/> Bending <input type="checkbox"/> Centre Not Concentric to O/S <input type="checkbox"/> Cracks <input type="checkbox"/> Crushed/Crimped <input type="checkbox"/> Cuffs <input type="checkbox"/> Heat Treat <input type="checkbox"/> Inspection Strip in Tube <input type="checkbox"/> Ripples in Bend <input type="checkbox"/> Torque Waves in Extrusion <input type="checkbox"/> Turning Sequence <input type="checkbox"/> Wave/Twist in Tube | | | General <input type="checkbox"/> Bend <input type="checkbox"/> BOM/Route <input type="checkbox"/> Broken/Damaged <input type="checkbox"/> Burrs <input type="checkbox"/> Contamination <input type="checkbox"/> Countersink <input type="checkbox"/> Cut Too Short <input type="checkbox"/> Drill Holes <input type="checkbox"/> Drawing <input type="checkbox"/> Finish <input type="checkbox"/> Folio | | | <input type="checkbox"/> Grain <input type="checkbox"/> Hardware <input type="checkbox"/> Inspection Incomplete <input type="checkbox"/> Instructions Incomplete/Unclear <input type="checkbox"/> Maintenance <input type="checkbox"/> Mislabeled <input type="checkbox"/> Misread <input type="checkbox"/> Offset <input type="checkbox"/> Out of Calibration <input type="checkbox"/> Out of Sequence <input type="checkbox"/> Outside Dimensions | | | <input type="checkbox"/> Ovalized <input type="checkbox"/> Over/Under tolerance <input type="checkbox"/> Part Incorrect <input type="checkbox"/> Part Lost/Missing <input type="checkbox"/> Part Moved <input type="checkbox"/> Positioned Wrong <input type="checkbox"/> Power Loss/Surge <input type="checkbox"/> Pressure/Forced <input type="checkbox"/> Temperature/Cure <input type="checkbox"/> Weld <input type="checkbox"/> Wrong Stock Pulled <input type="checkbox"/> Other | | |

Picklist Print

March-19-13 10:53:07 AM

Work Order ID: 98643

98643

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter

Start Date: 3/19/13

Required Date: 4/02/13

Start Qty: 1.00

Required Qty: 1.00

646.3715 Manufactured No

Each 0.0000

**

646 3715

Strut Doubler

MS27039-1-12

Purchased No

Each 235.0000

**

MS27039-1-12

Screw

Location

Loc Qty

Loc Code

Mezz

235

100993

235

Each

0.0000

**

646.3716

Manufactured No

646 3716

Gauge Bracket

MS20426AD5-7

Purchased No

Each 865.0000

**

MS20426AD5-7

Rivet

Location

Loc Qty

Loc Code

ST334

865

101340

865

Each

95.0000

**

MS24694-S54

Purchased No

MS24694-S54

Screw

Location

Loc Qty

Loc Code

ST303

95

123900

20

124859

75

B93338 h
2B
100993
M120083
+3 5x
JB
101340
JB 13-03-20
123900

NCR: Yes / No

WORK ORDER NON-CONFORMANCE / UPDATE

DQA: _____ Date: _____

QA Closed: _____ Date: _____

| | | | | | | | | | | | | | | | | | | |
|--|---|---|--------------------------------------|------------------------------------|------------------------------------|--------------------------------------|------------------------------------|------------------------------------|--|----------------------------------|--|------------------------------------|--|--------------------------------|------------------------------------|------------------------------------|-----------------------------------|--|
| Work Order: _____ Part No. _____ NCR No. _____ | DISPOSITION Rework <input type="checkbox"/> Scrap <input type="checkbox"/> Use-as-is <input type="checkbox"/> Work Order Update <input type="checkbox"/> | AGAINST DEPARTMENT/PROCESS <table style="width: 100%;"> <tr> <td>Skid-tube <input type="checkbox"/></td> <td>Crosstube <input type="checkbox"/></td> <td>Water Jet <input type="checkbox"/></td> <td>Engineering <input type="checkbox"/></td> </tr> <tr> <td>Machining <input type="checkbox"/></td> <td>Small Fab <input type="checkbox"/></td> <td>Prod. Eng. Coord. <input type="checkbox"/></td> <td>Quality <input type="checkbox"/></td> </tr> <tr> <td>Thermoforming <input type="checkbox"/></td> <td>Finishing <input type="checkbox"/></td> <td>Rec/Store/Packaging <input type="checkbox"/></td> <td>Other <input type="checkbox"/></td> </tr> <tr> <td>Large Fab <input type="checkbox"/></td> <td>Composite <input type="checkbox"/></td> <td>Supplier <input type="checkbox"/></td> <td></td> </tr> </table> | Skid-tube <input type="checkbox"/> | Crosstube <input type="checkbox"/> | Water Jet <input type="checkbox"/> | Engineering <input type="checkbox"/> | Machining <input type="checkbox"/> | Small Fab <input type="checkbox"/> | Prod. Eng. Coord. <input type="checkbox"/> | Quality <input type="checkbox"/> | Thermoforming <input type="checkbox"/> | Finishing <input type="checkbox"/> | Rec/Store/Packaging <input type="checkbox"/> | Other <input type="checkbox"/> | Large Fab <input type="checkbox"/> | Composite <input type="checkbox"/> | Supplier <input type="checkbox"/> | |
| Skid-tube <input type="checkbox"/> | Crosstube <input type="checkbox"/> | Water Jet <input type="checkbox"/> | Engineering <input type="checkbox"/> | | | | | | | | | | | | | | | |
| Machining <input type="checkbox"/> | Small Fab <input type="checkbox"/> | Prod. Eng. Coord. <input type="checkbox"/> | Quality <input type="checkbox"/> | | | | | | | | | | | | | | | |
| Thermoforming <input type="checkbox"/> | Finishing <input type="checkbox"/> | Rec/Store/Packaging <input type="checkbox"/> | Other <input type="checkbox"/> | | | | | | | | | | | | | | | |
| Large Fab <input type="checkbox"/> | Composite <input type="checkbox"/> | Supplier <input type="checkbox"/> | | | | | | | | | | | | | | | | |

| Root Cause | Date | Step | Qty | Description of work order update or Non-conformance | Initial Chief Eng | Action Description | Sign & Date | Verification | QC Inspector |
|--|------|------|-----|---|-------------------|--------------------|-------------|--------------|--------------|
| Doc/Data <input type="checkbox"/> | | | | | | | | | |
| Equip/Tooling <input type="checkbox"/> | | | | | | | | | |
| Operator <input type="checkbox"/> | | | | | | | | | |
| Material <input type="checkbox"/> | | | | | | | | | |
| Setup <input type="checkbox"/> | | | | | | | | | |
| Other <input type="checkbox"/> | | | | | | | | | |
| Process <input type="checkbox"/> | | | | | | | | | |
| Supplier <input type="checkbox"/> | | | | | | | | | |
| Training <input type="checkbox"/> | | | | | | | | | |
| Unapproved <input type="checkbox"/> | | | | | | | | | |

FAULT CATEGORY

| | | |
|---|---|---|
| Landing Gear <input type="checkbox"/> Bending <input type="checkbox"/> Centre Not Concentric to O/S <input type="checkbox"/> Cracks <input type="checkbox"/> Crushed/Crimped <input type="checkbox"/> Cuffs <input type="checkbox"/> Heat Treat <input type="checkbox"/> Inspection Strip in Tube <input type="checkbox"/> Ripples in Bend <input type="checkbox"/> Torque Waves in Extrusion <input type="checkbox"/> Turning Sequence <input type="checkbox"/> Wave/Twist in Tube | General <input type="checkbox"/> Bend <input type="checkbox"/> BOM/Route <input type="checkbox"/> Broken/Damaged <input type="checkbox"/> Burrs <input type="checkbox"/> Contamination <input type="checkbox"/> Countersink <input type="checkbox"/> Cut Too Short <input type="checkbox"/> Drill Holes <input type="checkbox"/> Drawing <input type="checkbox"/> Finish <input type="checkbox"/> Folio | <input type="checkbox"/> Grain <input type="checkbox"/> Hardware <input type="checkbox"/> Inspection Incomplete <input type="checkbox"/> Instructions Incomplete/Unclear <input type="checkbox"/> Maintenance <input type="checkbox"/> Mislabeled <input type="checkbox"/> Misread <input type="checkbox"/> Offset <input type="checkbox"/> Out of Calibration <input type="checkbox"/> Out of Sequence <input type="checkbox"/> Outside Dimensions |
|---|---|---|

| | | |
|--|---|--|
| <input type="checkbox"/> Ovalized <input type="checkbox"/> Over/Under tolerance <input type="checkbox"/> Part Incorrect <input type="checkbox"/> Part Lost/Missing <input type="checkbox"/> Part Moved <input type="checkbox"/> Positioned Wrong <input type="checkbox"/> Power Loss/Surge | <input type="checkbox"/> Pressure/Forced <input type="checkbox"/> Temperature/Cure <input type="checkbox"/> Weld <input type="checkbox"/> Wrong Stock Pulled <input type="checkbox"/> Other | |
|--|---|--|

Picklist Print

March-19-13 10:53:07 AM

Work Order ID: 98643

Parent Item: 646.4001

Parent Item Name: AS350 Cable Cutter

98643

646 4001

Start Date: 3/19/13

Required Date: 4/02/13

Start Qty: 1.00

Required Qty: 1.00

MS27039-1-21

Purchased

No

Each

387.0000

MS27039-1-21
SCREW

**

Location

Loc Qty

Loc Code

ST306

87

115935

87

ST506

300

124326

300

115935

MS27039-1-20

Purchased

No

Each

500.0000

MS27039-1-20
Screw

**

Location

Loc Qty

Loc Code

st510

500

124326

500

124326

MS27039-1-19

Purchased

No

Each

1,102.000

MS27039-1-19
Screw

**

Location

Loc Qty

Loc Code

ST306

102

122814

2

123522

100

ST506

1000

124326

1000

124326

646.3717

Manufactured

No

Each

10.0000

646 3717
Doubler

**

Location

Loc Qty

Loc Code

ST139A

10

93171

10

93171

NCR: Yes / No

WORK ORDER NON-CONFORMANCE / UPDATE

DQA: _____ Date: _____

QA Closed: _____ Date: _____

| | | | | | | | | | | | |
|---|------|------|---|---|-------------------|---|-------------|--------------|--|--|--|
| Work Order: _____ Part No. _____ NCR No. _____ | | | | DISPOSITION Rework <input type="checkbox"/> Scrap <input type="checkbox"/> Use-as-is <input type="checkbox"/> Work Order Update <input type="checkbox"/> | | AGAINST DEPARTMENT/PROCESS <div style="display: flex; justify-content: space-between;"> <div> Skid-tube <input type="checkbox"/> Machining <input type="checkbox"/> Thermoforming <input type="checkbox"/> Large Fab <input type="checkbox"/> </div> <div> Crosstube <input type="checkbox"/> Small Fab <input type="checkbox"/> Finishing <input type="checkbox"/> Composite <input type="checkbox"/> </div> <div> Water Jet <input type="checkbox"/> Prod. Eng. Coord. <input type="checkbox"/> Rec/Store/Packaging <input type="checkbox"/> Supplier <input type="checkbox"/> </div> <div> Engineering <input type="checkbox"/> Quality <input type="checkbox"/> Other <input type="checkbox"/> </div> </div> | | | | | |
| Root Cause | Date | Step | Qty | Description of work order update or Non-conformance | Initial Chief Eng | Action Description | Sign & Date | Verification | QC Inspector | | |
| Doc/Data <input type="checkbox"/> | | | | | | | | | | | |
| Equip/Tooling <input type="checkbox"/> | | | | | | | | | | | |
| Operator <input type="checkbox"/> | | | | | | | | | | | |
| Material <input type="checkbox"/> | | | | | | | | | | | |
| Setup <input type="checkbox"/> | | | | | | | | | | | |
| Other <input type="checkbox"/> | | | | | | | | | | | |
| Process <input type="checkbox"/> | | | | | | | | | | | |
| Supplier <input type="checkbox"/> | | | | | | | | | | | |
| Training <input type="checkbox"/> | | | | | | | | | | | |
| Unapproved <input type="checkbox"/> | | | | | | | | | | | |
| FAULT CATEGORY | | | | | | | | | | | |
| Landing Gear <input type="checkbox"/> Bending <input type="checkbox"/> Centre Not Concentric to O/S <input type="checkbox"/> Cracks <input type="checkbox"/> Crushed/Crimped <input type="checkbox"/> Cuffs <input type="checkbox"/> Heat Treat <input type="checkbox"/> Inspection Strip in Tube <input type="checkbox"/> Ripples in Bend <input type="checkbox"/> Torque Waves in Extrusion <input type="checkbox"/> Turning Sequence <input type="checkbox"/> Wave/Twist in Tube | | | General <input type="checkbox"/> Bend <input type="checkbox"/> BOM/Route <input type="checkbox"/> Broken/Damaged <input type="checkbox"/> Burrs <input type="checkbox"/> Contamination <input type="checkbox"/> Countersink <input type="checkbox"/> Cut Too Short <input type="checkbox"/> Drill Holes <input type="checkbox"/> Drawing <input type="checkbox"/> Finish <input type="checkbox"/> Folio | | | <input type="checkbox"/> Grain <input type="checkbox"/> Hardware <input type="checkbox"/> Inspection Incomplete <input type="checkbox"/> Instructions Incomplete/Unclear <input type="checkbox"/> Maintenance <input type="checkbox"/> Mislabeled <input type="checkbox"/> Misread <input type="checkbox"/> Offset <input type="checkbox"/> Out of Calibration <input type="checkbox"/> Out of Sequence <input type="checkbox"/> Outside Dimensions | | | <input type="checkbox"/> Ovalized <input type="checkbox"/> Over/Under tolerance <input type="checkbox"/> Part Incorrect <input type="checkbox"/> Part Lost/Missing <input type="checkbox"/> Part Moved <input type="checkbox"/> Positioned Wrong <input type="checkbox"/> Power Loss/Surge <input type="checkbox"/> Pressure/Forced <input type="checkbox"/> Temperature/Cure <input type="checkbox"/> Weld <input type="checkbox"/> Wrong Stock Pulled <input type="checkbox"/> Other _____ _____ _____ _____ | | |

Picklist Print

March-19-13 10:53:07 AM

Page 10

Work Order ID: 98643

98643

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter

Start Date: 3/19/13

Required Date: 4/02/13

Start Qty: 1.00

Required Qty: 1.00

646.3718 Manufactured No

Each 0.0000

646 3718 SD

Custom Washer

**

646.3719 Manufactured No

Each 20.0000

646 3719 SD

Doubler

**

MS27039-1-10 Purchased No

Each 359.0000

MS27039-1-10 SD

Screw

**

Location

Loc Qty

Loc Code

ST139B

20

93289

20

93289

Location

Loc Qty

Loc Code

GA

100

120449

100

ST305

101

122815

1

124859

100

ST308

18

123522

18

ST506

140

124326

140

124326

NCR: Yes / No

WORK ORDER NON-CONFORMANCE / UPDATE

DQA: _____ Date: _____

QA Closed: _____ Date: _____

| | | | | | | | | | | | | | | | | | | |
|--|---|---|--------------------------------------|------------------------------------|------------------------------------|--------------------------------------|------------------------------------|------------------------------------|--|----------------------------------|--|------------------------------------|--|--------------------------------|------------------------------------|------------------------------------|-----------------------------------|--|
| Work Order: _____ Part No. _____ NCR No. _____ | DISPOSITION Rework <input type="checkbox"/> Scrap <input type="checkbox"/> Use-as-is <input type="checkbox"/> Work Order Update <input type="checkbox"/> | AGAINST DEPARTMENT/PROCESS <table style="width: 100%;"> <tr> <td>Skid-tube <input type="checkbox"/></td> <td>Crosstube <input type="checkbox"/></td> <td>Water Jet <input type="checkbox"/></td> <td>Engineering <input type="checkbox"/></td> </tr> <tr> <td>Machining <input type="checkbox"/></td> <td>Small Fab <input type="checkbox"/></td> <td>Prod. Eng. Coord. <input type="checkbox"/></td> <td>Quality <input type="checkbox"/></td> </tr> <tr> <td>Thermoforming <input type="checkbox"/></td> <td>Finishing <input type="checkbox"/></td> <td>Rec/Store/Packaging <input type="checkbox"/></td> <td>Other <input type="checkbox"/></td> </tr> <tr> <td>Large Fab <input type="checkbox"/></td> <td>Composite <input type="checkbox"/></td> <td>Supplier <input type="checkbox"/></td> <td></td> </tr> </table> | Skid-tube <input type="checkbox"/> | Crosstube <input type="checkbox"/> | Water Jet <input type="checkbox"/> | Engineering <input type="checkbox"/> | Machining <input type="checkbox"/> | Small Fab <input type="checkbox"/> | Prod. Eng. Coord. <input type="checkbox"/> | Quality <input type="checkbox"/> | Thermoforming <input type="checkbox"/> | Finishing <input type="checkbox"/> | Rec/Store/Packaging <input type="checkbox"/> | Other <input type="checkbox"/> | Large Fab <input type="checkbox"/> | Composite <input type="checkbox"/> | Supplier <input type="checkbox"/> | |
| Skid-tube <input type="checkbox"/> | Crosstube <input type="checkbox"/> | Water Jet <input type="checkbox"/> | Engineering <input type="checkbox"/> | | | | | | | | | | | | | | | |
| Machining <input type="checkbox"/> | Small Fab <input type="checkbox"/> | Prod. Eng. Coord. <input type="checkbox"/> | Quality <input type="checkbox"/> | | | | | | | | | | | | | | | |
| Thermoforming <input type="checkbox"/> | Finishing <input type="checkbox"/> | Rec/Store/Packaging <input type="checkbox"/> | Other <input type="checkbox"/> | | | | | | | | | | | | | | | |
| Large Fab <input type="checkbox"/> | Composite <input type="checkbox"/> | Supplier <input type="checkbox"/> | | | | | | | | | | | | | | | | |

| Root Cause | Date | Step | Qty | Description of work order update or Non-conformance | Initial Chief Eng | Action Description | Sign & Date | Verification | QC Inspector |
|--|------|------|-----|---|-------------------|--------------------|-------------|--------------|--------------|
| Doc/Data <input type="checkbox"/> | | | | | | | | | |
| Equip/Tooling <input type="checkbox"/> | | | | | | | | | |
| Operator <input type="checkbox"/> | | | | | | | | | |
| Material <input type="checkbox"/> | | | | | | | | | |
| Setup <input type="checkbox"/> | | | | | | | | | |
| Other <input type="checkbox"/> | | | | | | | | | |
| Process <input type="checkbox"/> | | | | | | | | | |
| Supplier <input type="checkbox"/> | | | | | | | | | |
| Training <input type="checkbox"/> | | | | | | | | | |
| Unapproved <input type="checkbox"/> | | | | | | | | | |

FAULT CATEGORY

| | | |
|---|---|---|
| Landing Gear <input type="checkbox"/> Bending <input type="checkbox"/> Centre Not Concentric to O/S <input type="checkbox"/> Cracks <input type="checkbox"/> Crushed/Crimped <input type="checkbox"/> Cuffs <input type="checkbox"/> Heat Treat <input type="checkbox"/> Inspection Strip in Tube <input type="checkbox"/> Ripples in Bend <input type="checkbox"/> Torque Waves in Extrusion <input type="checkbox"/> Turning Sequence <input type="checkbox"/> Wave/Twist in Tube | General <input type="checkbox"/> Bend <input type="checkbox"/> BOM/Route <input type="checkbox"/> Broken/Damaged <input type="checkbox"/> Burrs <input type="checkbox"/> Contamination <input type="checkbox"/> Countersink <input type="checkbox"/> Cut Too Short <input type="checkbox"/> Drill Holes <input type="checkbox"/> Drawing <input type="checkbox"/> Finish <input type="checkbox"/> Folio | <input type="checkbox"/> Grain <input type="checkbox"/> Hardware <input type="checkbox"/> Inspection Incomplete <input type="checkbox"/> Instructions Incomplete/Unclear <input type="checkbox"/> Maintenance <input type="checkbox"/> Mislabeled <input type="checkbox"/> Misread <input type="checkbox"/> Offset <input type="checkbox"/> Out of Calibration <input type="checkbox"/> Out of Sequence <input type="checkbox"/> Outside Dimensions |
| | | <input type="checkbox"/> Ovalized <input type="checkbox"/> Over/Under tolerance <input type="checkbox"/> Part Incorrect <input type="checkbox"/> Part Lost/Missing <input type="checkbox"/> Part Moved <input type="checkbox"/> Positioned Wrong <input type="checkbox"/> Power Loss/Surge |
| | | <input type="checkbox"/> Pressure/Forced <input type="checkbox"/> Temperature/Cure <input type="checkbox"/> Weld <input type="checkbox"/> Wrong Stock Pulled <input type="checkbox"/> Other |

Picklist Print

March-19-13 10:53:07 AM

Page 11

Work Order ID: 98643

98643

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter

Start Date: 3/19/13

Required Date: 4/02/13

Start Qty: 1.00

Required Qty: 1.00

AN3-11A

Purchased

No

Each

792.0000

AN3-11A
Bolt

**

8 70 13-03-20

Location

Loc Qty

Loc Code

ST351

192

110865

42

123525

150

123525

ST512

600

115457

100

123352

200

123759

300

600.0990

Purchased

No

Each

0.0000

60000990

Magnabond 6398 Part A (One 4 oz can)

**

600.0991

Purchased

No

Each

0.0000

60000991

Magnabond 6398 Part B (One 4 oz can)

**

600.1012

Purchased

No

Each

0.0000

60010112

Sealant (One 6 oz Semkit)

**

600.0129

Purchased

No

Each

0.0000

6000129

VHB Tape

**

600.1013

Purchased

No

Each

0.0000

6001013

Primer

**

1125051 1125051 1125051 1125031 1125159

NCR: Yes / No

WORK ORDER NON-CONFORMANCE / UPDATE

DQA: _____ Date: _____

QA Closed: _____ Date: _____

| | | | | | | | | | | | | | | | | | | |
|--|---|---|--------------------------------------|------------------------------------|------------------------------------|--------------------------------------|------------------------------------|------------------------------------|--|----------------------------------|--|------------------------------------|--|--------------------------------|------------------------------------|------------------------------------|-----------------------------------|--|
| Work Order: _____ Part No. _____ NCR No. _____ | DISPOSITION Rework <input type="checkbox"/> Scrap <input type="checkbox"/> Use-as-is <input type="checkbox"/> Work Order Update <input type="checkbox"/> | AGAINST DEPARTMENT/PROCESS <table style="width: 100%;"> <tr> <td>Skid-tube <input type="checkbox"/></td> <td>Crosstube <input type="checkbox"/></td> <td>Water Jet <input type="checkbox"/></td> <td>Engineering <input type="checkbox"/></td> </tr> <tr> <td>Machining <input type="checkbox"/></td> <td>Small Fab <input type="checkbox"/></td> <td>Prod. Eng. Coord. <input type="checkbox"/></td> <td>Quality <input type="checkbox"/></td> </tr> <tr> <td>Thermoforming <input type="checkbox"/></td> <td>Finishing <input type="checkbox"/></td> <td>Rec/Store/Packaging <input type="checkbox"/></td> <td>Other <input type="checkbox"/></td> </tr> <tr> <td>Large Fab <input type="checkbox"/></td> <td>Composite <input type="checkbox"/></td> <td>Supplier <input type="checkbox"/></td> <td></td> </tr> </table> | Skid-tube <input type="checkbox"/> | Crosstube <input type="checkbox"/> | Water Jet <input type="checkbox"/> | Engineering <input type="checkbox"/> | Machining <input type="checkbox"/> | Small Fab <input type="checkbox"/> | Prod. Eng. Coord. <input type="checkbox"/> | Quality <input type="checkbox"/> | Thermoforming <input type="checkbox"/> | Finishing <input type="checkbox"/> | Rec/Store/Packaging <input type="checkbox"/> | Other <input type="checkbox"/> | Large Fab <input type="checkbox"/> | Composite <input type="checkbox"/> | Supplier <input type="checkbox"/> | |
| Skid-tube <input type="checkbox"/> | Crosstube <input type="checkbox"/> | Water Jet <input type="checkbox"/> | Engineering <input type="checkbox"/> | | | | | | | | | | | | | | | |
| Machining <input type="checkbox"/> | Small Fab <input type="checkbox"/> | Prod. Eng. Coord. <input type="checkbox"/> | Quality <input type="checkbox"/> | | | | | | | | | | | | | | | |
| Thermoforming <input type="checkbox"/> | Finishing <input type="checkbox"/> | Rec/Store/Packaging <input type="checkbox"/> | Other <input type="checkbox"/> | | | | | | | | | | | | | | | |
| Large Fab <input type="checkbox"/> | Composite <input type="checkbox"/> | Supplier <input type="checkbox"/> | | | | | | | | | | | | | | | | |

| Root Cause | Date | Step | Qty | Description of work order update or Non-conformance | Initial Chief Eng | Action Description | Sign & Date | Verification | QC Inspector |
|--|------|------|-----|---|-------------------|--------------------|-------------|--------------|--------------|
| Doc/Data <input type="checkbox"/> | | | | | | | | | |
| Equip/Tooling <input type="checkbox"/> | | | | | | | | | |
| Operator <input type="checkbox"/> | | | | | | | | | |
| Material <input type="checkbox"/> | | | | | | | | | |
| Setup <input type="checkbox"/> | | | | | | | | | |
| Other <input type="checkbox"/> | | | | | | | | | |
| Process <input type="checkbox"/> | | | | | | | | | |
| Supplier <input type="checkbox"/> | | | | | | | | | |
| Training <input type="checkbox"/> | | | | | | | | | |
| Unapproved <input type="checkbox"/> | | | | | | | | | |

FAULT CATEGORY

| | | |
|---|---|---|
| Landing Gear <input type="checkbox"/> Bending <input type="checkbox"/> Centre Not Concentric to O/S <input type="checkbox"/> Cracks <input type="checkbox"/> Crushed/Crimped <input type="checkbox"/> Cuffs <input type="checkbox"/> Heat Treat <input type="checkbox"/> Inspection Strip in Tube <input type="checkbox"/> Ripples in Bend <input type="checkbox"/> Torque Waves in Extrusion <input type="checkbox"/> Turning Sequence <input type="checkbox"/> Wave/Twist in Tube | General <input type="checkbox"/> Bend <input type="checkbox"/> BOM/Route <input type="checkbox"/> Broken/Damaged <input type="checkbox"/> Burrs <input type="checkbox"/> Contamination <input type="checkbox"/> Countersink <input type="checkbox"/> Cut Too Short <input type="checkbox"/> Drill Holes <input type="checkbox"/> Drawing <input type="checkbox"/> Finish <input type="checkbox"/> Folio | <input type="checkbox"/> Grain <input type="checkbox"/> Hardware <input type="checkbox"/> Inspection Incomplete <input type="checkbox"/> Instructions Incomplete/Unclear <input type="checkbox"/> Maintenance <input type="checkbox"/> Mislabeled <input type="checkbox"/> Misread <input type="checkbox"/> Offset <input type="checkbox"/> Out of Calibration <input type="checkbox"/> Out of Sequence <input type="checkbox"/> Outside Dimensions |
| | | <input type="checkbox"/> Ovalized <input type="checkbox"/> Over/Under tolerance <input type="checkbox"/> Part Incorrect <input type="checkbox"/> Part Lost/Missing <input type="checkbox"/> Part Moved <input type="checkbox"/> Positioned Wrong <input type="checkbox"/> Power Loss/Surge |
| | | <input type="checkbox"/> Pressure/Forced <input type="checkbox"/> Temperature/Cure <input type="checkbox"/> Weld <input type="checkbox"/> Wrong Stock Pulled <input type="checkbox"/> Other |

Picklist Print

March-19-13 10:53:07 AM

Page 12

Work Order ID: 98643

Parent Item: 646.4001

Parent Item Name: AS350 Cable Cutter

98643

646 4001

Start Date: 3/19/13

Required Date: 4/02/13

Start Qty: 1.00

Required Qty: 1.00

646.3910

Manufactured No

Each 90.0000

**

646 3910
Shim

Location

Loc Qty

Loc Code

ST139d

90

93238

90

Each

29.0000

**

646.3911

Manufactured No

646 3911
Shim

Location

Loc Qty

Loc Code

ST139d

29

93362

29

Each

91.0000

**

646.3912

Manufactured No

646 3912
Shim

Location

Loc Qty

Loc Code

ST139d

91

93423

91

Each

30.0000

**

646.3913

Manufactured No

646 3913
Shim

Location

Loc Qty

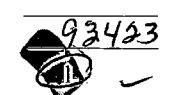
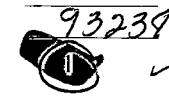
Loc Code

ST139d

30

93160

30



93160

JB

JB

JB

JB



13-03-20

NCR: Yes / No

WORK ORDER NON-CONFORMANCE / UPDATE

DQA: _____ Date: _____

QA Closed: _____ Date: _____

| | | | | | | | | | | | | | | | | | | |
|--|---|--|--------------------------------------|------------------------------------|------------------------------------|--------------------------------------|------------------------------------|------------------------------------|--|----------------------------------|--|------------------------------------|--|--------------------------------|------------------------------------|------------------------------------|-----------------------------------|--|
| Work Order: _____ Part No. _____ NCR No. _____ | DISPOSITION Rework <input type="checkbox"/> Scrap <input type="checkbox"/> Use-as-is <input type="checkbox"/> Work Order Update <input type="checkbox"/> | AGAINST DEPARTMENT/PROCESS <table style="width:100%;"> <tr> <td>Skid-tube <input type="checkbox"/></td> <td>Crosstube <input type="checkbox"/></td> <td>Water Jet <input type="checkbox"/></td> <td>Engineering <input type="checkbox"/></td> </tr> <tr> <td>Machining <input type="checkbox"/></td> <td>Small Fab <input type="checkbox"/></td> <td>Prod. Eng. Coord. <input type="checkbox"/></td> <td>Quality <input type="checkbox"/></td> </tr> <tr> <td>Thermoforming <input type="checkbox"/></td> <td>Finishing <input type="checkbox"/></td> <td>Rec/Store/Packaging <input type="checkbox"/></td> <td>Other <input type="checkbox"/></td> </tr> <tr> <td>Large Fab <input type="checkbox"/></td> <td>Composite <input type="checkbox"/></td> <td>Supplier <input type="checkbox"/></td> <td></td> </tr> </table> | Skid-tube <input type="checkbox"/> | Crosstube <input type="checkbox"/> | Water Jet <input type="checkbox"/> | Engineering <input type="checkbox"/> | Machining <input type="checkbox"/> | Small Fab <input type="checkbox"/> | Prod. Eng. Coord. <input type="checkbox"/> | Quality <input type="checkbox"/> | Thermoforming <input type="checkbox"/> | Finishing <input type="checkbox"/> | Rec/Store/Packaging <input type="checkbox"/> | Other <input type="checkbox"/> | Large Fab <input type="checkbox"/> | Composite <input type="checkbox"/> | Supplier <input type="checkbox"/> | |
| Skid-tube <input type="checkbox"/> | Crosstube <input type="checkbox"/> | Water Jet <input type="checkbox"/> | Engineering <input type="checkbox"/> | | | | | | | | | | | | | | | |
| Machining <input type="checkbox"/> | Small Fab <input type="checkbox"/> | Prod. Eng. Coord. <input type="checkbox"/> | Quality <input type="checkbox"/> | | | | | | | | | | | | | | | |
| Thermoforming <input type="checkbox"/> | Finishing <input type="checkbox"/> | Rec/Store/Packaging <input type="checkbox"/> | Other <input type="checkbox"/> | | | | | | | | | | | | | | | |
| Large Fab <input type="checkbox"/> | Composite <input type="checkbox"/> | Supplier <input type="checkbox"/> | | | | | | | | | | | | | | | | |

| Root Cause | Date | Step | Qty | Description of work order update or Non-conformance | Initial Chief Eng | Action Description | Sign & Date | Verification | QC Inspector |
|--|------|------|-----|---|-------------------|--------------------|-------------|--------------|--------------|
| Doc/Data <input type="checkbox"/> | | | | | | | | | |
| Equip/Tooling <input type="checkbox"/> | | | | | | | | | |
| Operator <input type="checkbox"/> | | | | | | | | | |
| Material <input type="checkbox"/> | | | | | | | | | |
| Setup <input type="checkbox"/> | | | | | | | | | |
| Other <input type="checkbox"/> | | | | | | | | | |
| Process <input type="checkbox"/> | | | | | | | | | |
| Supplier <input type="checkbox"/> | | | | | | | | | |
| Training <input type="checkbox"/> | | | | | | | | | |
| Unapproved <input type="checkbox"/> | | | | | | | | | |

FAULT CATEGORY

| | | |
|---|---|---|
| Landing Gear <input type="checkbox"/> Bending <input type="checkbox"/> Centre Not Concentric to O/S <input type="checkbox"/> Cracks <input type="checkbox"/> Crushed/Crimped <input type="checkbox"/> Cuffs <input type="checkbox"/> Heat Treat <input type="checkbox"/> Inspection Strip in Tube <input type="checkbox"/> Ripples in Bend <input type="checkbox"/> Torque Waves in Extrusion <input type="checkbox"/> Turning Sequence <input type="checkbox"/> Wave/Twist in Tube | General <input type="checkbox"/> Bend <input type="checkbox"/> BOM/Route <input type="checkbox"/> Broken/Damaged <input type="checkbox"/> Burrs <input type="checkbox"/> Contamination <input type="checkbox"/> Countersink <input type="checkbox"/> Cut Too Short <input type="checkbox"/> Drill Holes <input type="checkbox"/> Drawing <input type="checkbox"/> Finish <input type="checkbox"/> Folio | <input type="checkbox"/> Grain <input type="checkbox"/> Hardware <input type="checkbox"/> Inspection Incomplete <input type="checkbox"/> Instructions Incomplete/Unclear <input type="checkbox"/> Maintenance <input type="checkbox"/> Mislabeled <input type="checkbox"/> Misread <input type="checkbox"/> Offset <input type="checkbox"/> Out of Calibration <input type="checkbox"/> Out of Sequence <input type="checkbox"/> Outside Dimensions |
|---|---|---|

| | | |
|--|---|--|
| <input type="checkbox"/> Ovalized <input type="checkbox"/> Over/Under tolerance <input type="checkbox"/> Part Incorrect <input type="checkbox"/> Part Lost/Missing <input type="checkbox"/> Part Moved <input type="checkbox"/> Positioned Wrong <input type="checkbox"/> Power Loss/Surge | <input type="checkbox"/> Pressure/Forced <input type="checkbox"/> Temperature/Cure <input type="checkbox"/> Weld <input type="checkbox"/> Wrong Stock Pulled <input type="checkbox"/> Other | |
|--|---|--|

Picklist Print

March-19-13 10:53:07 AM

Page 13

Work Order ID: 98643

Parent Item: 646.4001

Parent Item Name: AS350 Cable Cutter

98643

646 4001

Start Date: 3/19/13

Required Date: 4/02/13

Start Qty: 1.00

Required Qty: 1.00

AN3-12A

Purchased

No

Each

151.0000

AN3-12A

Bolt

**

Location

Loc Qty

Loc Code

GA

6

122407

6

ST351

45

114536

1

123352

44

ST512

100

123759

100

Each

106.0000

MS27039-1-16

Purchased

No

MS27039-1-16

Screw

**

Location

Loc Qty

Loc Code

ST306

106

121444

6

122993

100

123759

13-03-20

122993

NCR: Yes / No

WORK ORDER NON-CONFORMANCE / UPDATE

DQA: _____ Date: _____

QA Closed: _____ Date: _____

| | | | | | | | | | | | | | | | | | | |
|--|---|---|--------------------------------------|------------------------------------|------------------------------------|--------------------------------------|------------------------------------|------------------------------------|--|----------------------------------|--|------------------------------------|--|--------------------------------|------------------------------------|------------------------------------|-----------------------------------|--|
| Work Order: _____ Part No. _____ NCR No. _____ | DISPOSITION Rework <input type="checkbox"/> Scrap <input type="checkbox"/> Use-as-is <input type="checkbox"/> Work Order Update <input type="checkbox"/> | AGAINST DEPARTMENT/PROCESS <table style="width: 100%;"> <tr> <td>Skid-tube <input type="checkbox"/></td> <td>Crosstube <input type="checkbox"/></td> <td>Water Jet <input type="checkbox"/></td> <td>Engineering <input type="checkbox"/></td> </tr> <tr> <td>Machining <input type="checkbox"/></td> <td>Small Fab <input type="checkbox"/></td> <td>Prod. Eng. Coord. <input type="checkbox"/></td> <td>Quality <input type="checkbox"/></td> </tr> <tr> <td>Thermoforming <input type="checkbox"/></td> <td>Finishing <input type="checkbox"/></td> <td>Rec/Store/Packaging <input type="checkbox"/></td> <td>Other <input type="checkbox"/></td> </tr> <tr> <td>Large Fab <input type="checkbox"/></td> <td>Composite <input type="checkbox"/></td> <td>Supplier <input type="checkbox"/></td> <td></td> </tr> </table> | Skid-tube <input type="checkbox"/> | Crosstube <input type="checkbox"/> | Water Jet <input type="checkbox"/> | Engineering <input type="checkbox"/> | Machining <input type="checkbox"/> | Small Fab <input type="checkbox"/> | Prod. Eng. Coord. <input type="checkbox"/> | Quality <input type="checkbox"/> | Thermoforming <input type="checkbox"/> | Finishing <input type="checkbox"/> | Rec/Store/Packaging <input type="checkbox"/> | Other <input type="checkbox"/> | Large Fab <input type="checkbox"/> | Composite <input type="checkbox"/> | Supplier <input type="checkbox"/> | |
| Skid-tube <input type="checkbox"/> | Crosstube <input type="checkbox"/> | Water Jet <input type="checkbox"/> | Engineering <input type="checkbox"/> | | | | | | | | | | | | | | | |
| Machining <input type="checkbox"/> | Small Fab <input type="checkbox"/> | Prod. Eng. Coord. <input type="checkbox"/> | Quality <input type="checkbox"/> | | | | | | | | | | | | | | | |
| Thermoforming <input type="checkbox"/> | Finishing <input type="checkbox"/> | Rec/Store/Packaging <input type="checkbox"/> | Other <input type="checkbox"/> | | | | | | | | | | | | | | | |
| Large Fab <input type="checkbox"/> | Composite <input type="checkbox"/> | Supplier <input type="checkbox"/> | | | | | | | | | | | | | | | | |

| Root Cause | Date | Step | Qty | Description of work order update or Non-conformance | Initial Chief Eng | Action Description | Sign & Date | Verification | QC Inspector |
|--|------|------|-----|---|-------------------|--------------------|-------------|--------------|--------------|
| Doc/Data <input type="checkbox"/> | | | | | | | | | |
| Equip/Tooling <input type="checkbox"/> | | | | | | | | | |
| Operator <input type="checkbox"/> | | | | | | | | | |
| Material <input type="checkbox"/> | | | | | | | | | |
| Setup <input type="checkbox"/> | | | | | | | | | |
| Other <input type="checkbox"/> | | | | | | | | | |
| Process <input type="checkbox"/> | | | | | | | | | |
| Supplier <input type="checkbox"/> | | | | | | | | | |
| Training <input type="checkbox"/> | | | | | | | | | |
| Unapproved <input type="checkbox"/> | | | | | | | | | |

FAULT CATEGORY

| | | |
|---|---|---|
| Landing Gear <input type="checkbox"/> Bending <input type="checkbox"/> Centre Not Concentric to O/S <input type="checkbox"/> Cracks <input type="checkbox"/> Crushed/Crimped <input type="checkbox"/> Cuffs <input type="checkbox"/> Heat Treat <input type="checkbox"/> Inspection Strip in Tube <input type="checkbox"/> Ripples in Bend <input type="checkbox"/> Torque Waves in Extrusion <input type="checkbox"/> Turning Sequence <input type="checkbox"/> Wave/Twist in Tube | General <input type="checkbox"/> Bend <input type="checkbox"/> BOM/Route <input type="checkbox"/> Broken/Damaged <input type="checkbox"/> Burrs <input type="checkbox"/> Contamination <input type="checkbox"/> Countersink <input type="checkbox"/> Cut Too Short <input type="checkbox"/> Drill Holes <input type="checkbox"/> Drawing <input type="checkbox"/> Finish <input type="checkbox"/> Folio | <input type="checkbox"/> Grain <input type="checkbox"/> Hardware <input type="checkbox"/> Inspection Incomplete <input type="checkbox"/> Instructions Incomplete/Unclear <input type="checkbox"/> Maintenance <input type="checkbox"/> Mislabeled <input type="checkbox"/> Misread <input type="checkbox"/> Offset <input type="checkbox"/> Out of Calibration <input type="checkbox"/> Out of Sequence <input type="checkbox"/> Outside Dimensions |
| | | <input type="checkbox"/> Ovalized <input type="checkbox"/> Over/Under tolerance <input type="checkbox"/> Part Incorrect <input type="checkbox"/> Part Lost/Missing <input type="checkbox"/> Part Moved <input type="checkbox"/> Positioned Wrong <input type="checkbox"/> Power Loss/Surge |
| | | <input type="checkbox"/> Pressure/Forced <input type="checkbox"/> Temperature/Cure <input type="checkbox"/> Weld <input type="checkbox"/> Wrong Stock Pulled <input type="checkbox"/> Other |

APICAL

INDUSTRIES, INC.

ENGINEERING CHANGE NOTICE NO 03079

SHEET 1 JF 1

DWG NO. 646.4000

REV: A

PREPARED BY: N.CAP

DATE: 03/21/11

EFFECT ON DWG
☐ INC. ☒ UNINC.

DWG TITLE: AS350 CABLE CUTTERS KIT

APPROVED BY:

ENGR

MFG

QC

EFF:

NEXT ORDER

TRANSACTION CODES (TC):
A-ADD C-CREATE
R-REVISE D-DELETE

REASON: CREATED FIXED AND CCK WITHOUT FIXED PROVISIONS KIT

SHEET 1, BOM, IS:

COPY

ENCLOSURE

98643 M/L
13-03-19

| REF | REF | REF | 65 | 647.5701 | GPS MOUNT KIT | |
|------|------|------|----------|----------|-----------------|--------------|
| | | 6 | 64 | 601.3151 | WASHER | NS247802P |
| | | | 63 | 601.2911 | SCREW | NS24694333 |
| 2 | 2 | 62 | 601.2637 | SCREW | | NS27809-1-16 |
| 2 | 2 | 61 | 601.2763 | BOLT | | ANC-12A |
| 1 | 1 | 60 | 646.3913 | SHIM | | |
| 4 | 4 | 59 | 646.3912 | SHIM | | |
| 1 | 1 | 58 | 646.3911 | SHIM | | |
| 4 | 4 | 57 | 646.3910 | SHIM | | |
| 5 | 5 | 56 | 600.1013 | PRIMER | | |
| 8 FT | 8 FT | 55 | 600.0129 | VHB TAPE | | |
| 1 | 1 | 54 | 600.1012 | SEALANT | HM-1025 CLASS B | |
| AM04 | AM03 | AM02 | AM01 | FIND # | PART # | DESCRIPTION |
| | | | | | | MATL |
| | | | | | | SPEC. |

| | | | | | |
|------|------|------|----------|-------------------------|--------------|
| 1 | 1 | 53 | 600.0991 | MACHINED 6398 PART B | |
| 1 | 1 | 52 | 600.0990 | MACHINED 6398 PART A | |
| 8 | 8 | 51 | 601.2826 | BOLT | ANC-12A |
| | 2 | 50 | 646.3814 | VIPER BRACKET | |
| | 2 | 49 | 601.2910 | SCREW | NS27809-1-18 |
| 2 | 2 | 48 | 601.1365 | SCREW | NS27809-1-18 |
| 2 | 2 | 47 | 646.3719 | DOUBLER | |
| | 2 | 46 | 646.3718 | CUSTOM WASHER | |
| 1 | 1 | 45 | 646.3717 | DOUBLER | |
| | 22 | 44 | 601.1948 | SCREW | NS27809-1-19 |
| | 2 | 43 | 601.1952 | SCREW | NS27809-1-20 |
| 4 | 4 | 42 | 601.1956 | SCREW | NS27809-1-21 |
| 2 | 2 | 41 | 601.2829 | SCREW | NS24694334 |
| 2 | 2 | 40 | 601.2831 | RIVET | NS24694335-7 |
| 1 | 1 | 39 | 646.3716 | GAUGE BRACKET | |
| 6 | 6 | 38 | 601.1953 | SCREW | NS27809-1-12 |
| 2 | 2 | 37 | 646.3715 | STRUT DOUBLER | |
| | 2 | 36 | 601.2824 | BOLT | ANC-5A |
| 36 | 36 | 35 | 601.2277 | RIVET | COR6433-3-42 |
| 18 | 18 | 34 | 600.0795 | NUTPLATE | NS2467-3 |
| 3 | 3 | 33 | 601.2565 | RIVET | NS2478025-7 |
| 1 | 1 | 32 | 646.3813 | STRUT BRACKET | |
| 4 | 4 | 31 | 601.2822 | BOLT | ANC-3A |
| 2 | 2 | 30 | 646.3812 | GUSSET BRACKET | |
| 8 | 8 | 29 | 601.2564 | RIVET | NS2478025-6 |
| 1 | 1 | 28 | 646.3714 | GUSSET | |
| | 1 | 27 | 646.3610 | FILLER | |
| | 1 | 26 | 601.2830 | SCREW | NS24694335 |
| | 2 | 25 | 601.2825 | BOLT | ANC-6A |
| | 1 | 24 | 646.3811 | RADIUS BLOCK | |
| | 1 | 23 | 646.3712 | CLIP | |
| | 1 | 22 | 646.3711 | CLIP | |
| 8 | 8 | 21 | 601.2832 | RIVET | NS247802-53 |
| 14 | 14 | 20 | 601.2820 | RIVET | CC223-5-3 |
| 10 | 10 | 19 | 601.2823 | BOLT | ANC-4A |
| | 1 | 18 | 601.2827 | BOLT | ANC-13A |
| | 5 | 17 | 601.2912 | SCREW | NS24694331 |
| 1 | 1 | 16 | 646.3713 | GUSSET | |
| 1 | 1 | 15 | 646.3210 | SUPPORT | |
| 1 | 1 | 14 | 646.3710 | DOUBLER | |
| | 1 | 13 | 646.3110 | CHANNEL | |
| 8 | 55 | 12 | 601.1624 | LOCKWIT | NS2462.3 |
| 18 | 116 | 11 | 601.1607 | WASHER | NS247802P |
| | | 10 | 646.3411 | RH VIPER DEFLECTOR | |
| | | 9 | 646.3410 | LH VIPER DEFLECTOR | |
| | | 8 | 646.3513 | STRUT | |
| | | 7 | 646.3512 | STRUT | |
| | | 6 | 646.3511 | STRUT | |
| | | 5 | 646.3510 | STRUT | |
| 2 | 2 | 4 | 646.3810 | BRACKET | |
| | 1 | 3 | 646.2910 | DEFLECTOR | |
| | 1 | 2 | 646.3001 | LOWER CUTTER ASSY | |
| | 1 | 1 | 646.3301 | UPPER CUTTER ASSY | |
| X | | | 646.4004 | FIXED PROVISIONS KIT | |
| X | | | 646.4003 | FIXED PROVISIONS KIT | |
| X | | | 646.4002 | FIXED PROVISIONS KIT | |
| X | | | 646.4001 | AS350 CABLE CUTTERS KIT | |
| AM04 | AM03 | AM02 | AM01 | FIND # | PART # |
| | | | | | DESCRIPTION |
| | | | | | MATL |
| | | | | | SPEC. |

DOCUMENTS EFFECTED:

☒ MDL ☒ INSTALL INSTRU ☒ ICA ☒ BOM

CHANGE CATEGORY
☐ MAJOR ☒ MINOR

DER REVIEW REQUIRED
☐ YES ☒ NO

98643

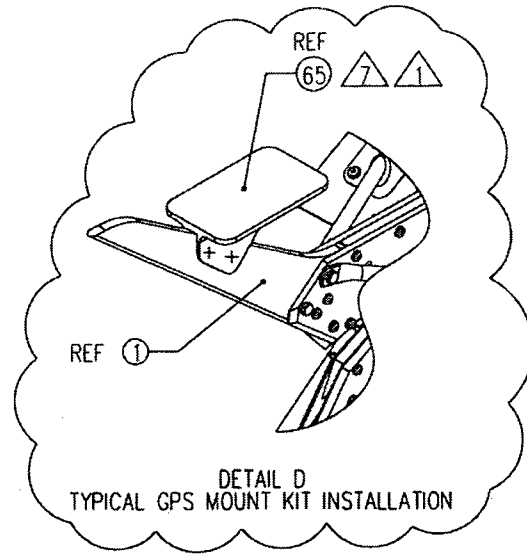
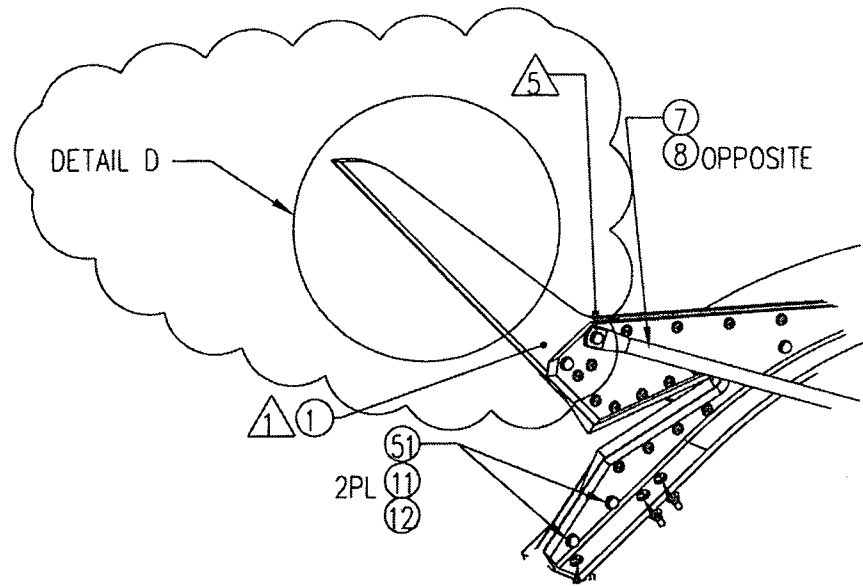
| | | | | | | |
|--|-------------------------------------|--|------------------------|-----------------|---|--|
| APICAL INDUSTRIES, INC. | ENGINEERING CHANGE NOTICE NO. 03046 | | | | SHEET 1 OF 1 | |
| | DWG NO. 646.4000 | REV: A | PREPARED BY J. JACKSON | DATE: 01/24/11 | EFFECT ON DWG <input type="checkbox"/> INC. <input checked="" type="checkbox"/> UNINC. | |
| | DWG TITLE: AS350 CABLE CUTTERS KIT | | | | | |
| APPROVED BY: ENGR <i>[Signature]</i> | | MFG <i>[Signature]</i> | QC <i>[Signature]</i> | EFF: NEXT ORDER | | |
| TRANSACTION CODES (TC): A-ADD C-CREATE R-REVISE D-DELETE | | REASON: ADDED GPS MOUNT KIT, F/N 65. REVISED DRAWING VIEWS. ADDED NOTE <u>7</u> . | | | | |

SHEET 1, ZONE B1 IS:

7 AT CUSTOMERS OPTION, INSTALL F/N 65 BY MATCH DRILLING ONTO F/N 1.

SHEET 2, ZONE A4 IS:

SHEET 2, ZONE B2 IS:



| | | | | | | |
|--|----|-------------|------|---------------|---|---------------|
| 65 | A | 647.5701 | REF | GPS MOUNT KIT | <u>7</u> | |
| F/N | TC | PART NUMBER | QTY | DESCRIPTION | MATERIAL | SPECIFICATION |
| | | | 4001 | | | |
| DOCUMENTS EFFECTED: | | | | | CHANGE CATEGORY <input type="checkbox"/> MAJOR <input checked="" type="checkbox"/> MINOR | |
| <input type="checkbox"/> MDL <input type="checkbox"/> INSTALL INSTRUC <input type="checkbox"/> ICA <input checked="" type="checkbox"/> BOM | | | | | DER REVIEW REQUIRED <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO | |

98643

NOTES:

- 1 AFTER INSTALLATION, APPLY F/N 54 A/R TO FILL GAPS AND FILLET EDGES
- 2 INSTALL F/N 14 WITH F/N 52 & 53
- 3 3M VHB ADHESIVE TAPE .025" THICK X .50" WIDE
VENDOR: MCMMASTER-CARR P/N 75935A651
- 4 3M TAPE PRIMER 94, APPLY TO BOTH SURFACES A/R BEFORE TAPE
VENDOR: P.S. HUGHES P/N 021200-24216
- 5 REUSE FASTENERS FROM F/N 1
- 6 USE WASHERS AS REQUIRED AS SHIMS TO OBTAIN BEST FITMENT

UNLESS OTHERWISE SPECIFIED ECN(S)

03046, 03079,



| QTY | UNIT | FIND # | PART # | DESCRIPTION | ASMTL | SPEC. |
|-----|------|--------|----------|-------------|--------------|-------|
| 6 | | 64 | 601.3151 | WASHER | MS21440-080P | |
| 2 | | 63 | 601.2911 | SCREW | MS2460-1553 | |
| | | 62 | 601.2637 | SCREW | MS2470-1-16 | |
| | | 61 | 601.2763 | BOLT | ANSI 12A | |
| | | 60 | 646.3913 | SHIM | | |
| | | 59 | 646.3912 | SHIM | | |
| | | 58 | 646.3911 | SHIM | | |

| QTY | UNIT | FIND # | PART # | DESCRIPTION | ASMTL | SPEC. |
|-----|------|--------|----------|--------------------------|---------------|-------|
| 4 | | 57 | 646.3910 | SHIM | | |
| 5 | | 56 | 600.1011 | PRIMER | | |
| 55 | | 55 | 600.1012 | VHB TAPE | | |
| 54 | | 54 | 600.1010 | VHB TAPE | | |
| 53 | | 53 | 600.0991 | MAGNETIC COUPLER PART A | | |
| 52 | | 52 | 600.0990 | MAGNETIC COUPLER PART B | | |
| 51 | | 51 | 601.2826 | BOLT | ANSI 12A | |
| 50 | | 50 | 646.3814 | WIPER BRACKET | | |
| 49 | | 49 | 601.2910 | SCREW | MS2460-1-16 | |
| 48 | | 48 | 601.1365 | SCREW | MS2460-1-10 | |
| 47 | | 47 | 646.3719 | DOUBLER | | |
| 46 | | 46 | 646.3718 | CUSTOM WASHER | | |
| 45 | | 45 | 646.3717 | DOUBLER | | |
| 44 | | 44 | 601.1948 | SCREW | MS2460-1-10 | |
| 43 | | 43 | 601.1952 | SCREW | MS2460-1-20 | |
| 42 | | 42 | 601.1956 | SCREW | MS2460-1-20 | |
| 41 | | 41 | 601.2829 | SCREW | MS2460-1-20 | |
| 40 | | 40 | 601.2831 | RIVET | MS2460-1-20 | |
| 39 | | 39 | 646.3716 | GUSSET BRACKET | MS2460-1-20 | |
| 38 | | 38 | 601.1953 | SCREW | MS2460-1-17 | |
| 37 | | 37 | 646.3715 | STRUT DOUBLER | | |
| 36 | | 36 | 601.2824 | BOLT | ANSI 12A | |
| 35 | | 35 | 601.2777 | RIVET | MS2460-1-20 | |
| 34 | | 34 | 600.0795 | NUT PLATE | MS2460-1-20 | |
| 33 | | 33 | 601.2565 | RIVET | MS2460-1-20 | |
| 32 | | 32 | 646.3813 | STRUT BRACKET | | |
| 31 | | 31 | 601.2822 | BOLT | ANSI 12A | |
| 30 | | 30 | 646.3812 | GUSSET BRACKET | | |
| 29 | | 29 | 601.2564 | RIVET | MS2460-1-20 | |
| 28 | | 28 | 646.3714 | GUSSET | | |
| 27 | | 27 | 646.3610 | FILLER | | |
| 26 | | 26 | 601.2830 | SCREW | MS2460-1-20 | |
| 25 | | 25 | 601.2825 | BOLT | ANSI 12A | |
| 24 | | 24 | 646.3811 | RADIUS BLOCK | | |
| 23 | | 23 | 646.3712 | CLIP | | |
| 22 | | 22 | 646.3711 | CLIP | | |
| 21 | | 21 | 601.2832 | RIVET | MS2460-1-20 | |
| 20 | | 20 | 601.2020 | RIVET | CP3213-S-3 | |
| 19 | | 19 | 601.2823 | BOLT | ANSI 12A | |
| 18 | | 18 | 601.2827 | BOLT | ANSI 12A | |
| 17 | | 17 | 601.2912 | SCREW | MS2460-1-20 | |
| 16 | | 16 | 646.3713 | GUSSET | | |
| 15 | | 15 | 646.3210 | SUPPORT | | |
| 14 | | 14 | 646.3710 | DOUBLER | | |
| 13 | | 13 | 646.3110 | CHANNEL | | |
| 12 | | 12 | 601.1624 | LOCKNUT | MS2124-263 | |
| 11 | | 11 | 601.1607 | WASHER | MS2114-16070P | |
| 10 | | 10 | 646.3411 | RH WIPER DEFLECTOR | | |
| 9 | | 9 | 646.3410 | LH WIPER DEFLECTOR | | |
| 8 | | 8 | 646.3513 | STRUT | | |
| 7 | | 7 | 646.3512 | STRUT | | |
| 6 | | 6 | 646.3511 | STRUT | | |
| 5 | | 5 | 646.3510 | STRUT | | |
| 4 | | 4 | 646.3810 | BRACKET | | |
| 3 | | 3 | 646.2910 | DEFLECTOR | | |
| 2 | | 2 | 646.3301 | LOWER CUTTER ASSY | | |
| 1 | | 1 | 646.3301 | UPPER CUTTER ASSY | | |
| 1 | | 1 | 646.4002 | AS350 WIPER DEFLECTOR OF | | |
| 1 | | 1 | 646.4001 | AS350 CABLE CUTTERS KIT | | |

QTY

NEXT ASSY (S)

OPERATOR: BAH
INDICATED BY: 08-21-08
FORWARD BY: J. HURT
1 HURT
P. BRAVO
REWORK/REWORK
P. BRAVO
REWORK/REWORK
P. BRAVO

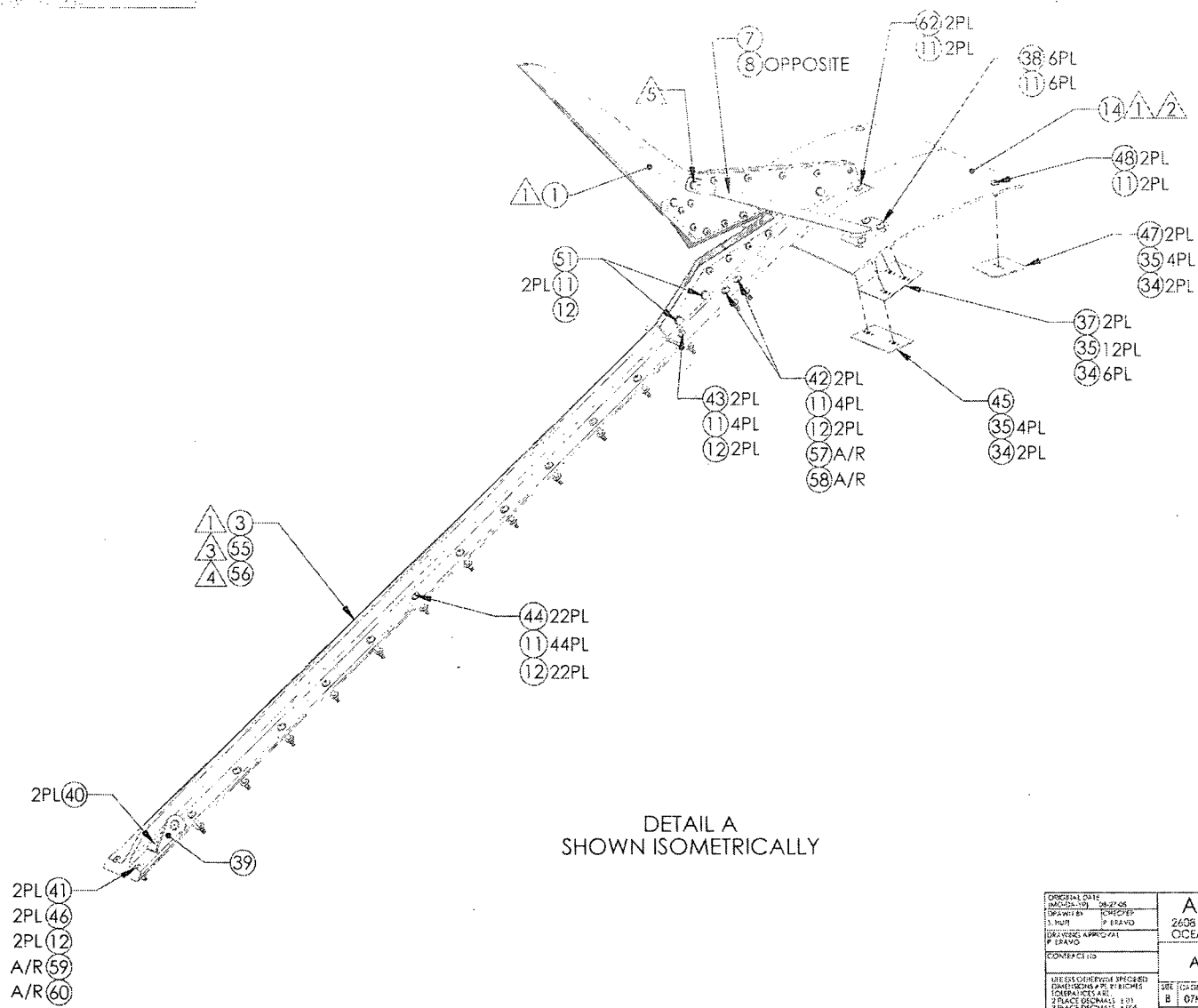
UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ARE:
3 PLACE DECIMALS: .001
ANGLES: 1/2°

APICAL INDUSTRIES
2608 TEMPLE HEIGHTS DR.
OCEANSIDE, CA. 92056-3512 (760) 724-5300

AS350 CABLE CUTTERS KIT

REV: 07/06
SCALE: NONE
SHEET: 1 OF 4

98043

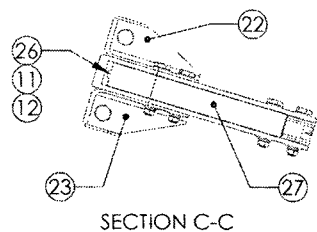
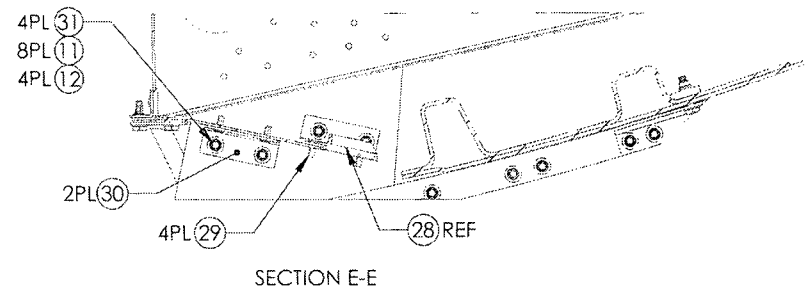
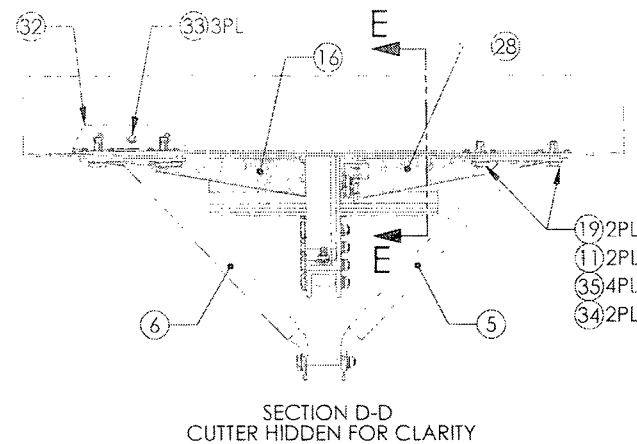
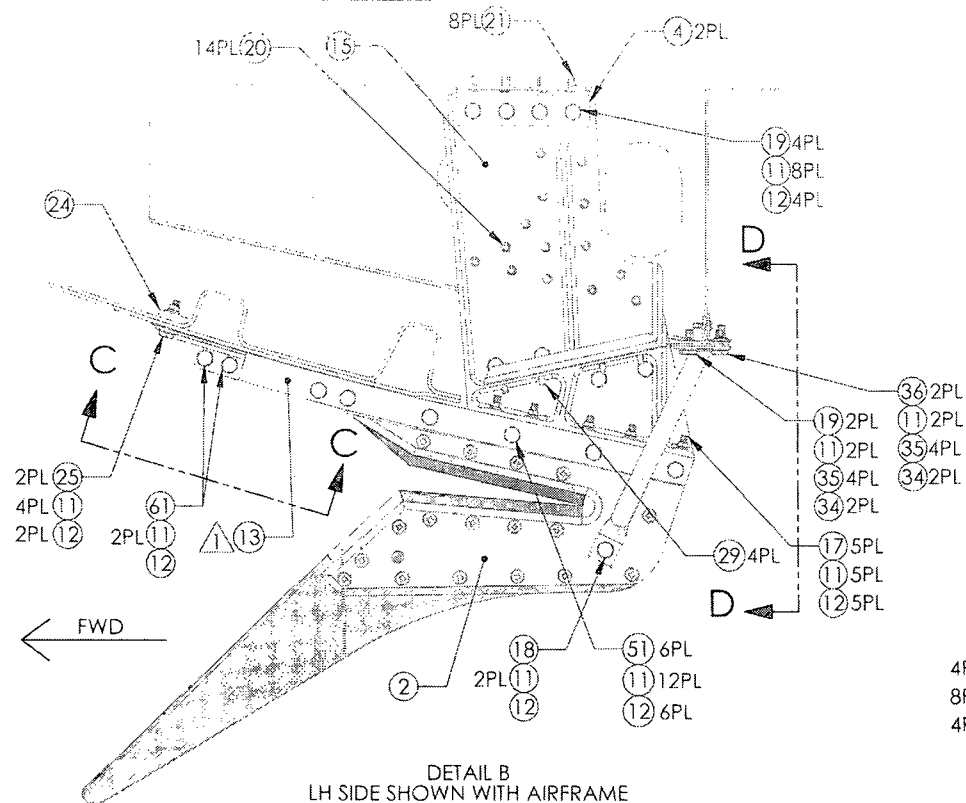


DETAIL A
SHOWN ISOMETRICALLY

| | | | |
|--|---|------------------|--------------|
| ORIGINAL DATE 10/02/04 101 08/27/06 | APICAL INDUSTRIES | | |
| DRAWN BY 3. HUNT | 2608 TEMPLE HEIGHTS DR. | | |
| CHECKED BY P. BRAVO | OCEANSIDE, CA. 92056-3512 (760)724-5300 | | |
| DRAWING APPROVAL P. BRAVO | | | |
| CONTENTS | AS350 CABLE CUTTERS KIT | | |
| THIS DRAWING IS FOR THE PROJECT DIMENSIONS ARE IN INCHES TOLERANCES ARE 2 PLACE DECIMAL 1/16" 3 PLACE DECIMAL 1/32" ANALYSIS 1/3" | REV B | DATE 07/26/04 | 646.4000 |
| | SCALE | NONE | SHEET 2 OF 4 |

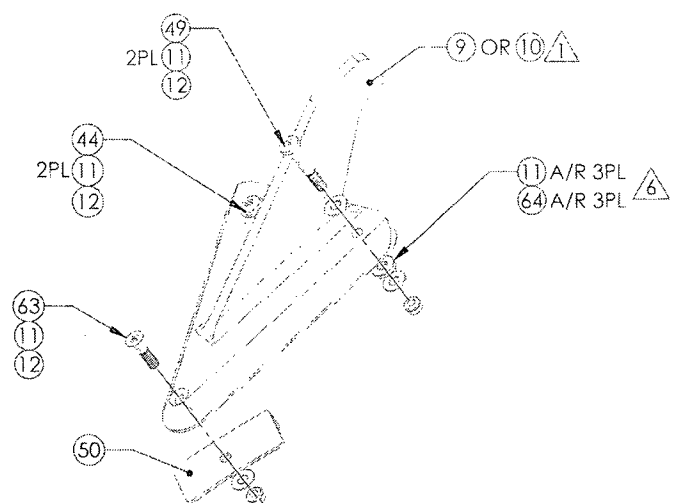
98643

UNLESS OTHERWISE SPECIFIED
ALL DIMENSIONS ARE IN INCHES
FRACTIONS SHALL BE IN 16THS OF AN INCH
TOLERANCES UNLESS OTHERWISE SPECIFIED



| | | | |
|--|-------------|--|--------------|
| ORIGINAL DATE | 10-02-98 | APICAL INDUSTRIES | |
| DESIGNED BY | TECHNICAL | 2408 TEMPLE HEIGHTS DR. | |
| DRAWN BY | BRAND | OCEANSIDE, CA 92056-3512 (760)724-5300 | |
| DATE | 10-02-98 | AS350 CABLE CUTTERS KIT | |
| UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES FRACTIONS ARE 16THS OF AN INCH TOLERANCES ARE: 3 PLACES DECIMALS .005 ALL OTHERS .015 | REV | DATE | REV |
| | 8 | 07/02/00 | A |
| | SCALE: NONE | | SHEET 3 OF 4 |

98643



DETAIL C
LH SHOWN EXPLODED
RH OPPOSITE

| | | | |
|--|--|----------------------------|--|
| APPROVAL DATE (MM-DD-YY) | | APPROVAL BY (SIGNATURE) | |
| DRAWING NO. 98643 | | REV. 1 | |
| DRAWING APPROVAL (SIGNATURE) | | DATE 07/12/06 | |
| CONTRACT NO. | | SCALE NONE | |
| LIMITS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES FRACTIONS DECIMALS 1/16 1/32 1/64 1/8 1/4 3/8 1/2 5/8 3/4 7/8 1 1 1/4 1 1/2 1 3/4 2 2 1/4 2 1/2 3 3 1/4 3 1/2 4 4 1/4 4 1/2 5 5 1/4 5 1/2 6 6 1/4 6 1/2 7 7 1/4 7 1/2 8 8 1/4 8 1/2 9 9 1/4 9 1/2 10 10 1/4 10 1/2 11 11 1/4 11 1/2 12 12 1/4 12 1/2 13 13 1/4 13 1/2 14 14 1/4 14 1/2 15 15 1/4 15 1/2 16 16 1/4 16 1/2 17 17 1/4 17 1/2 18 18 1/4 18 1/2 19 19 1/4 19 1/2 20 20 1/4 20 1/2 21 21 1/4 21 1/2 22 22 1/4 22 1/2 23 23 1/4 23 1/2 24 24 1/4 24 1/2 25 25 1/4 25 1/2 26 26 1/4 26 1/2 27 27 1/4 27 1/2 28 28 1/4 28 1/2 29 29 1/4 29 1/2 30 30 1/4 30 1/2 31 31 1/4 31 1/2 32 32 1/4 32 1/2 33 33 1/4 33 1/2 34 34 1/4 34 1/2 35 35 1/4 35 1/2 36 36 1/4 36 1/2 37 37 1/4 37 1/2 38 38 1/4 38 1/2 39 39 1/4 39 1/2 40 40 1/4 40 1/2 41 41 1/4 41 1/2 42 42 1/4 42 1/2 43 43 1/4 43 1/2 44 44 1/4 44 1/2 45 45 1/4 45 1/2 46 46 1/4 46 1/2 47 47 1/4 47 1/2 48 48 1/4 48 1/2 49 49 1/4 49 1/2 50 50 1/4 50 1/2 51 51 1/4 51 1/2 52 52 1/4 52 1/2 53 53 1/4 53 1/2 54 54 1/4 54 1/2 55 55 1/4 55 1/2 56 56 1/4 56 1/2 57 57 1/4 57 1/2 58 58 1/4 58 1/2 59 59 1/4 59 1/2 60 60 1/4 60 1/2 61 61 1/4 61 1/2 62 62 1/4 62 1/2 63 63 1/4 63 1/2 64 64 1/4 64 1/2 65 65 1/4 65 1/2 66 66 1/4 66 1/2 67 67 1/4 67 1/2 68 68 1/4 68 1/2 69 69 1/4 69 1/2 70 70 1/4 70 1/2 71 71 1/4 71 1/2 72 72 1/4 72 1/2 73 73 1/4 73 1/2 74 74 1/4 74 1/2 75 75 1/4 75 1/2 76 76 1/4 76 1/2 77 77 1/4 77 1/2 78 78 1/4 78 1/2 79 79 1/4 79 1/2 80 80 1/4 80 1/2 81 81 1/4 81 1/2 82 82 1/4 82 1/2 83 83 1/4 83 1/2 84 84 1/4 84 1/2 85 85 1/4 85 1/2 86 86 1/4 86 1/2 87 87 1/4 87 1/2 88 88 1/4 88 1/2 89 89 1/4 89 1/2 90 90 1/4 90 1/2 91 91 1/4 91 1/2 92 92 1/4 92 1/2 93 93 1/4 93 1/2 94 94 1/4 94 1/2 95 95 1/4 95 1/2 96 96 1/4 96 1/2 97 97 1/4 97 1/2 98 98 1/4 98 1/2 99 99 1/4 99 1/2 100 100 1/4 100 1/2 101 101 1/4 101 1/2 102 102 1/4 102 1/2 103 103 1/4 103 1/2 104 104 1/4 104 1/2 105 105 1/4 105 1/2 106 106 1/4 106 1/2 107 107 1/4 107 1/2 108 108 1/4 108 1/2 109 109 1/4 109 1/2 110 110 1/4 110 1/2 111 111 1/4 111 1/2 112 112 1/4 112 1/2 113 113 1/4 113 1/2 114 114 1/4 114 1/2 115 115 1/4 115 1/2 116 116 1/4 116 1/2 117 117 1/4 117 1/2 118 118 1/4 118 1/2 119 119 1/4 119 1/2 120 120 1/4 120 1/2 121 121 1/4 121 1/2 122 122 1/4 122 1/2 123 123 1/4 123 1/2 124 124 1/4 124 1/2 125 125 1/4 125 1/2 126 126 1/4 126 1/2 127 127 1/4 127 1/2 128 128 1/4 128 1/2 129 129 1/4 129 1/2 130 130 1/4 130 1/2 131 131 1/4 131 1/2 132 132 1/4 132 1/2 133 133 1/4 133 1/2 134 134 1/4 134 1/2 135 135 1/4 135 1/2 136 136 1/4 136 1/2 137 137 1/4 137 1/2 138 138 1/4 138 1/2 139 139 1/4 139 1/2 140 140 1/4 140 1/2 141 141 1/4 141 1/2 142 142 1/4 142 1/2 143 143 1/4 143 1/2 144 144 1/4 144 1/2 145 145 1/4 145 1/2 146 146 1/4 146 1/2 147 147 1/4 147 1/2 148 148 1/4 148 1/2 149 149 1/4 149 1/2 150 150 1/4 150 1/2 151 151 1/4 151 1/2 152 152 1/4 152 1/2 153 153 1/4 153 1/2 154 154 1/4 154 1/2 155 155 1/4 155 1/2 156 156 1/4 156 1/2 157 157 1/4 157 1/2 158 158 1/4 158 1/2 159 159 1/4 159 1/2 160 160 1/4 160 1/2 161 161 1/4 161 1/2 162 162 1/4 162 1/2 163 163 1/4 163 1/2 164 164 1/4 164 1/2 165 165 1/4 165 1/2 166 166 1/4 166 1/2 167 167 1/4 167 1/2 168 168 1/4 168 1/2 169 169 1/4 169 1/2 170 170 1/4 170 1/2 171 171 1/4 171 1/2 172 172 1/4 172 1/2 173 173 1/4 173 1/2 174 174 1/4 174 1/2 175 175 1/4 175 1/2 176 176 1/4 176 1/2 177 177 1/4 177 1/2 178 178 1/4 178 1/2 179 179 1/4 179 1/2 180 180 1/4 180 1/2 181 181 1/4 181 1/2 182 182 1/4 182 1/2 183 183 1/4 183 1/2 184 184 1/4 184 1/2 185 185 1/4 185 1/2 186 186 1/4 186 1/2 187 187 1/4 187 1/2 188 188 1/4 188 1/2 189 189 1/4 189 1/2 190 190 1/4 190 1/2 191 191 1/4 191 1/2 192 192 1/4 192 1/2 193 193 1/4 193 1/2 194 194 1/4 194 1/2 195 195 1/4 195 1/2 196 196 1/4 196 1/2 197 197 1/4 197 1/2 198 198 1/4 198 1/2 199 199 1/4 199 1/2 200 200 1/4 200 1/2 201 201 1/4 201 1/2 202 202 1/4 202 1/2 203 203 1/4 203 1/2 204 204 1/4 204 1/2 205 205 1/4 205 1/2 206 206 1/4 206 1/2 207 207 1/4 207 1/2 208 208 1/4 208 1/2 209 209 1/4 209 1/2 210 210 1/4 210 1/2 211 211 1/4 211 1/2 212 212 1/4 212 1/2 213 213 1/4 213 1/2 214 214 1/4 214 1/2 215 215 1/4 215 1/2 216 216 1/4 216 1/2 217 217 1/4 217 1/2 218 218 1/4 218 1/2 219 219 1/4 219 1/2 220 220 1/4 220 1/2 221 221 1/4 221 1/2 222 222 1/4 222 1/2 223 223 1/4 223 1/2 224 224 1/4 224 1/2 225 225 1/4 225 1/2 226 226 1/4 226 1/2 227 227 1/4 227 1/2 228 228 1/4 228 1/2 229 229 1/4 229 1/2 230 230 1/4 230 1/2 231 231 1/4 231 1/2 232 232 1/4 232 1/2 233 233 1/4 233 1/2 234 234 1/4 234 1/2 235 235 1/4 235 1/2 236 236 1/4 236 1/2 237 237 1/4 237 1/2 238 238 1/4 238 1/2 239 239 1/4 239 1/2 240 240 1/4 240 1/2 241 241 1/4 241 1/2 242 242 1/4 242 1/2 243 243 1/4 243 1/2 244 244 1/4 244 1/2 245 245 1/4 245 1/2 246 246 1/4 246 1/2 247 247 1/4 247 1/2 248 248 1/4 248 1/2 249 249 1/4 249 1/2 250 250 1/4 250 1/2 251 251 1/4 251 1/2 252 252 1/4 252 1/2 253 253 1/4 253 1/2 254 254 1/4 254 1/2 255 255 1/4 255 1/2 256 256 1/4 256 1/2 257 257 1/4 257 1/2 258 258 1/4 258 1/2 259 259 1/4 259 1/2 260 260 1/4 260 1/2 261 261 1/4 261 1/2 262 262 1/4 262 1/2 263 263 1/4 263 1/2 264 264 1/4 264 1/2 265 265 1/4 265 1/2 266 266 1/4 266 1/2 267 267 1/4 267 1/2 268 268 1/4 268 1/2 269 269 1/4 269 1/2 270 270 1/4 270 1/2 271 271 1/4 271 1/2 272 272 1/4 272 1/2 273 273 1/4 273 1/2 274 274 1/4 274 1/2 275 275 1/4 275 1/2 276 276 1/4 276 1/2 277 277 1/4 277 1/2 278 278 1/4 278 1/2 279 279 1/4 279 1/2 280 280 1/4 280 1/2 281 281 1/4 281 1/2 282 282 1/4 282 1/2 283 283 1/4 283 1/2 284 284 1/4 284 1/2 285 285 1/4 285 1/2 286 286 1/4 286 1/2 287 287 1/4 287 1/2 288 288 1/4 288 1/2 289 289 1/4 289 1/2 290 290 1/4 290 1/2 291 291 1/4 291 1/2 292 292 1/4 292 1/2 293 293 1/4 293 1/2 294 294 1/4 294 1/2 295 295 1/4 295 1/2 296 296 1/4 296 1/2 297 297 1/4 297 1/2 298 298 1/4 298 1/2 299 299 1/4 299 1/2 300 300 1/4 300 1/2 301 301 1/4 301 1/2 302 302 1/4 302 1/2 303 303 1/4 303 1/2 304 304 1/4 304 1/2 305 305 1/4 305 1/2 306 306 1/4 306 1/2 307 307 1/4 307 1/2 308 308 1/4 308 1/2 309 309 1/4 309 1/2 310 310 1/4 310 1/2 311 311 1/4 311 1/2 312 312 1/4 312 1/2 313 313 1/4 313 1/2 314 314 1/4 314 1/2 315 315 1/4 315 1/2 316 316 1/4 316 1/2 317 317 1/4 317 1/2 318 318 1/4 318 1/2 319 319 1/4 319 1/2 320 320 1/4 320 1/2 321 321 1/4 321 1/2 322 322 1/4 322 1/2 323 323 1/4 323 1/2 324 324 1/4 324 1/2 325 325 1/4 325 1/2 326 326 1/4 326 1/2 327 327 1/4 327 1/2 328 328 1/4 328 1/2 329 329 1/4 329 1/2 330 330 1/4 330 1/2 331 331 1/4 331 1/2 332 332 1/4 332 1/2 333 333 1/4 333 1/2 334 334 1/4 334 1/2 335 335 1/4 335 1/2 336 336 1/4 336 1/2 337 337 1/4 337 1/2 338 338 1/4 338 1/2 339 339 1/4 339 1/2 340 340 1/4 340 1/2 341 341 1/4 341 1/2 342 342 1/4 342 1/2 343 343 1/4 343 1/2 344 344 1/4 344 1/2 345 345 1/4 345 1/2 346 346 1/4 346 1/2 347 347 1/4 347 1/2 348 348 1/4 348 1/2 349 349 1/4 349 1/2 350 350 1/4 350 1/2 351 351 1/4 351 1/2 352 352 1/4 352 1/2 353 353 1/4 353 1/2 354 354 1/4 354 1/2 355 355 1/4 355 1/2 356 356 1/4 356 1/2 357 357 1/4 357 1/2 358 358 1/4 358 1/2 359 359 1/4 359 1/2 360 360 1/4 360 1/2 361 361 1/4 361 1/2 362 362 1/4 362 1/2 363 363 1/4 363 1/2 364 364 1/4 364 1/2 365 365 1/4 365 1/2 366 366 1/4 366 1/2 367 367 1/4 367 1/2 368 368 1/4 368 1/2 369 369 1/4 369 1/2 370 370 1/4 370 1/2 371 371 1/4 371 1/2 372 372 1/4 372 1/2 373 373 1/4 373 1/2 374 374 1/4 374 1/2 375 375 1/4 375 1/2 376 376 1/4 376 1/2 377 377 1/4 377 1/2 378 378 1/4 378 1/2 379 379 1/4 379 1/2 380 380 1/4 380 1/2 381 381 1/4 381 1/2 382 382 1/4 382 1/2 383 383 1/4 383 1/2 384 384 1/4 384 1/2 385 385 1/4 385 1/2 386 386 1/4 386 1/2 387 387 1/4 387 1/2 388 388 1/4 388 1/2 389 389 1/4 389 1/2 390 390 1/4 390 1/2 391 391 1/4 391 1/2 392 392 1/4 392 1/2 393 393 1/4 393 1/2 394 394 1/4 394 1/2 395 395 1/4 395 1/2 396 396 1/4 396 1/2 397 397 1/4 397 1/2 398 398 1/4 398 1/2 399 399 1/4 399 1/2 400 400 1/4 400 1/2 401 401 1/4 401 1/2 402 402 1/4 402 1/2 403 403 1/4 403 1/2 404 404 1/4 404 1/2 405 405 1/4 405 1/2 406 406 1/4 406 1/2 407 407 1/4 407 1/2 408 408 1/4 408 1/2 409 409 1/4 409 1/2 410 410 1/4 410 1/2 411 411 1/4 411 1/2 412 412 1/4 412 1/2 413 413 1/4 413 1/2 414 414 1/4 414 1/2 415 415 1/4 415 1/2 416 416 1/4 416 1/2 417 417 1/4 417 1/2 418 418 1/4 418 1/2 419 419 1/4 419 1/2 420 420 1/4 420 1/2 421 421 1/4 421 1/2 422 422 1/4 422 1/2 423 423 1/4 423 1/2 424 424 1/4 424 1/2 425 425 1/4 425 1/2 426 426 1/4 426 1/2 427 427 1/4 427 1/2 428 428 1/4 428 1/2 429 429 1/4 429 1/2 430 430 1/4 430 1/2 431 431 1/4 431 1/2 432 432 1/4 432 1/2 433 433 1/4 433 1/2 434 434 1/4 434 1/2 435 435 1/4 435 1/2 436 436 1/4 436 1/2 437 437 1/4 437 1/2 438 438 1/4 438 1/2 439 439 1/4 439 1/2 440 440 1/4 440 1/2 441 441 1/4 441 1/2 442 442 1/4 442 1/2 443 443 1/4 443 1/2 444 444 1/4 444 1/2 445 445 1/4 445 1/2 446 446 1/4 446 1/2 447 447 1/4 447 1/2 448 448 1/4 448 1/2 449 449 1/4 449 1/2 450 450 1/4 450 1/2 451 451 1/4 451 1/2 452 452 1/4 452 1/2 453 453 1/4 453 1/2 454 454 1/4 454 1/2 455 455 1/4 455 1/2 456 456 1/4 456 1/2 457 457 1/4 457 1/2 458 458 1/4 458 1/2 459 459 1/4 459 1/2 460 460 1/4 460 1/2 461 461 1/4 461 1/2 462 462 1/4 462 1/2 463 463 1/4 463 1/2 464 464 1/4 464 1/2 465 465 1/4 465 1/2 466 466 1/4 466 1/2 467 467 1/4 467 1/2 468 468 1/4 468 1/2 469 469 1/4 469 1/2 470 470 1/4 470 1/2 471 471 1/4 471 1/2 472 472 1/4 472 1/2 473 473 1/4 473 1/2 474 474 1/4 474 1/2 475 475 1/4 475 1/2 476 476 1/4 476 1/2 477 477 1/4 477 1/2 478 478 1/4 478 1/2 479 479 1/4 479 1/2 480 480 1/4 480 1/2 481 481 1/4 481 1/2 482 482 1/4 482 1/2 483 483 1/4 483 1/2 484 484 1/4 484 1/2 485 485 1/4 485 1/2 486 486 1/4 486 1/2 487 487 1/4 487 1/2 488 488 1/4 488 1/2 489 489 1/4 489 1/2 490 490 1/4 490 1/2 491 491 1/4 491 1/2 492 492 1/4 492 1/2 493 493 1/4 493 1/2 494 494 1/4 494 1/2 495 495 1/4 495 1/2 496 496 1/4 496 1/2 497 497 1/4 497 1/2 498 498 1/4 498 1/2 499 499 1/4 499 1/2 500 500 1/4 500 1/2 501 501 1/4 501 1/2 502 502 1/4 502 1/2 503 503 1/4 503 1/2 504 504 1/4 504 1/2 505 505 1/4 505 1/2 506 506 1/4 506 1/2 507 507 1/4 507 1/2 508 508 1/4 508 1/2 509 509 1/4 509 1/2 510 510 1/4 510 1/2 511 511 1/4 511 1/2 512 512 1/4 512 1/2 513 513 1/4 513 1/2 514 514 1/4 514 1/2 515 515 1/4 515 1/2 516 516 1/4 516 1/2 517 517 1/4 517 1/2 518 518 1/4 518 1/2 519 519 1/4 519 1/2 520 520 1/4 520 1/2 521 521 1/4 521 1/2 522 522 1/4 522 1/2 523 523 1/4 523 1/2 524 524 1/4 524 1/2 525 525 1/4 525 1/2 526 526 1/4 526 1/2 527 527 1/4 527 1/2 528 528 1/4 528 1/2 529 529 1/4 529 1/2 530 530 1/4 530 1/2 531 531 1/4 531 1/2 532 532 1/4 532 1/2 533 533 1/4 533 1/2 534 534 1/4 534 1/2 535 535 1/4 535 1/2 536 536 1/4 536 1/2 537 537 1/4 537 1/2 538 538 1/4 538 1/2 539 539 1/4 539 1/2 540 540 1/4 540 1/2 541 541 1/4 541 1/2 542 542 1/4 542 1/2 543 543 1/4 543 1/2 544 544 1/4 544 1/2 545 545 1/4 545 1/2 546 546 1/4 546 1/2 547 547 1/4 547 1/2 548 548 1/4 548 1/2 549 549 1/4 549 1/2 550 550 1/4 550 1/2 551 551 1/4 551 1/2 552 552 1/4 552 1/2 553 553 1/4 553 1/2 554 554 1/4 554 1/2 555 555 1/4 555 1/2 556 556 1/4 556 1/2 557 557 1/4 557 1/2 558 558 1/4 558 1/2 559 559 1/4 559 1/2 560 560 1/4 560 1/2 561 561 1/4 561 1/2 562 562 1/4 562 1/2 563 563 1/4 563 1/2 564 564 1/4 564 1/2 565 565 1/4 565 1/2 566 566 1/4 566 1/2 567 567 1/4 567 1/2 568 568 1/4 568 1/2 569 569 1/4 569 1/2 570 570 1/4 570 1/2 571 571 1/4 571 1/2 572 572 1/4 572 1/2 573 573 1/4 573 1/2 574 574 1/4 574 1/2 575 575 1/4 575 1/2 576 576 1/4 576 1/2 577 577 1/4 577 1/2 578 578 1/4 578 1/2 579 579 1/4 579 1/2 580 580 1/4 580 1/2 581 581 1/4 581 1/2 582 582 1/4 582 1/2 583 583 1/4 583 1/2 584 584 1/4 584 1/2 585 585 1/4 585 1/2 586 586 1/4 586 1/2 587 587 1/4 587 1/2 588 588 1/4 588 1/2 589 589 1/4 589 1/2 590 590 1/4 590 1/2 591 591 1/4 591 1/2 592 592 1/4 592 1/2 593 593 1/4 593 1/2 594 594 1/4 594 1/2 595 595 1/4 595 1/2 596 596 1/4 596 1/2 597 597 1/4 597 1/2 598 598 1/4 598 1/2 599 599 1/4 599 1/2 600 600 1/4 600 1/2 601 601 1/4 601 1/2 602 602 1/4 602 1/2 603 603 1/4 603 1/2 604 604 1/4 604 1/2 605 605 1/4 605 1/2 606 606 1/4 606 1/2 607 607 1/4 607 | | | |

EFFECT ON DWG
☐ INC. ☒ UNINC.

DWG TITLE: AS350 CABLE CUTTERS KIT

NEXT ORDER

TRANSACTION CODES (TC):

A-ADD C-CREATE

R-REVISE D-DELETE

REASON: CREATED FIXED AND CCK WITHOUT FIXED PROVISIONS KIT

SHEET 1, BOM, IS:

REFERENCE ONLY

| REF | REF | REF | 65 | 647.5701 | GP'S MOUNT KIT | | |
|------|------|------|------|----------|----------------|---------------|-------|
| | 6 | | 64 | 601.3151 | WASHER | 1002149706P | |
| | | | 63 | 601.2911 | SCREW | 1002149453P | |
| 2 | 2 | 2 | 62 | 601.2637 | SCREW | 10027039-1-16 | |
| 2 | 2 | 1 | 61 | 601.2763 | BOLT | 1 ANO-12A | |
| | | | 60 | 646.3913 | SHIM | | |
| 4 | 4 | 1 | 59 | 646.3912 | SHIM | | |
| 1 | 1 | 1 | 58 | 646.3911 | SHIM | | |
| 4 | 4 | 1 | 57 | 646.3910 | SHIM | | |
| | | | 56 | 600.1013 | PRIMER | | |
| 8 FT | 8 FT | | 55 | 600.0129 | VHB TAPE | | |
| 1 | 1 | | 54 | 600.1021 | SEALANT | | |
| AREA | AREA | AREA | AREA | FIND | PART | DESCRIPTION | SPEC. |

[illegible]

DOCUMENTS EFFECTED:

☒ MDL ☒ INSTALL INSTRU ☒ ICA ☒ BOM

CHANGE CATEGORY
☐ MAJOR ☒ MINOR

DER REVIEW REQUIRED
☐ YES ☒ NO

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

26

27

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF APICAL INDUSTRIES. ANY REPRODUCTION IN PART OR WHOLE WITHOUT THE WRITTEN PERMISSION OF APICAL INDUSTRIES IS PROHIBITED.

NOTES:

- 1 AFTER INSTALLATION, APPLY F/N 54 A/R TO FILL GAPS AND FILLET EDGES
- 2 INSTALL F/N 14 WITH F/N 52 & 53
- 3 3M VHB ADHESIVE TAPE .025" THICK X .50" WIDE
VENDOR: MCMMASTER-CARR P/N 75935A651
- 4 3M TAPE PRIMER 94, APPLY TO BOTH SURFACES A/R BEFORE TAPE
VENDOR: R.S. HUGHES P/N 021200-24216
- 5 REUSE FASTENERS FROM F/N 1
- 6 USE WASHERS AS REQUIRED AS SHIMS TO OBTAIN BEST FITMENT

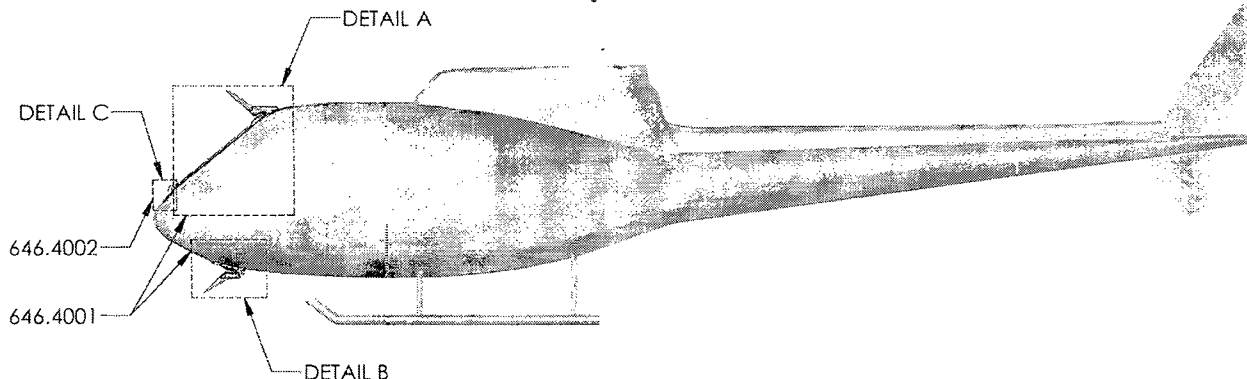
UNLESS OTHERWISE STATED ECN(S)

03046, 03079,

| REV. | DESCRIPTION | DATE | APPROVED |
|------|--|------------|----------|
| 1 | REWORKED FOR 03079, 03046, 03079 & 03046 | 02/06/2010 | P. BRAVO |

| QTY | REV. | FIND # | PART # | DESCRIPTION | MATL | SPEC. |
|-----|------|--------|----------|----------------------------|--------------|-------|
| 4 | 57 | | 646.3910 | SHIM | | |
| 5 | 56 | | 600.1013 | PRIMER | | |
| 5 | 55 | | 600.0129 | VHB TAPE | | |
| 1 | 54 | | 600.1012 | SEALANT | | |
| 1 | 53 | | 600.0991 | MAGNIBOND 4398 PART B | | |
| 1 | 52 | | 600.0990 | MAGNIBOND 4398 PART A | | |
| 8 | 51 | | 601.2826 | BOLT | AN3-11A | |
| 2 | 50 | | 646.3814 | WIPER BRACKET | | |
| 2 | 49 | | 601.2910 | SCREW | MS27036-1-13 | |
| 2 | 48 | | 601.1365 | SCREW | MS27036-1-10 | |
| 2 | 47 | | 646.3719 | DOUBLER | | |
| 2 | 46 | | 646.3718 | CUSTOM WASHER | | |
| 1 | 45 | | 646.3717 | DOUBLER | | |
| 2 | 44 | | 601.1948 | SCREW | MS27036-1-19 | |
| 2 | 43 | | 601.1952 | SCREW | MS27036-1-20 | |
| 4 | 42 | | 601.1956 | SCREW | MS27036-1-21 | |
| 2 | 41 | | 601.2829 | SCREW | MS24694552 | |
| 2 | 40 | | 601.2831 | RIVET | MS20426AD5-7 | |
| 1 | 39 | | 646.3716 | GAUGE BRACKET | | |
| 6 | 38 | | 601.1953 | SCREW | MS27036-1-12 | |
| 2 | 37 | | 646.3715 | STRUT DOUBLER | | |
| 2 | 36 | | 601.2824 | BOLT | AN3-5A | |
| 36 | 35 | | 601.2277 | RIVET | CC22455-5-02 | |
| 18 | 34 | | 600.0795 | NUTPLATE | MS21047-3 | |
| 3 | 33 | | 601.2565 | RIVET | MS20470ADS-7 | |
| 1 | 32 | | 646.3813 | STRUT BRACKET | | |
| 4 | 31 | | 601.2822 | BOLT | AN3-3A | |
| 2 | 30 | | 646.3812 | GUSSET BRACKET | | |
| 8 | 29 | | 601.2564 | RIVET | MS20470ADS-6 | |
| 1 | 28 | | 646.3714 | GUSSET | | |
| 1 | 27 | | 646.3610 | FILLER | | |
| 1 | 26 | | 601.2830 | SCREW | MS24694553 | |
| 2 | 25 | | 601.2825 | BOLT | AN3-5A | |
| 1 | 24 | | 646.3811 | RADIUS BLOCK | | |
| 1 | 23 | | 646.3712 | CLIP | | |
| 1 | 22 | | 646.3711 | CLIP | | |
| 8 | 21 | | 601.2832 | RIVET | MS20470ADS-5 | |
| 14 | 20 | | 601.2020 | RIVET | CC2213-5-3 | |
| 10 | 19 | | 601.2823 | BOLT | AN3-4A | |
| 1 | 18 | | 601.2827 | BOLT | AN3-12A | |
| 5 | 17 | | 601.2912 | SCREW | MS24694551 | |
| 1 | 16 | | 646.3713 | GUSSET | | |
| 1 | 15 | | 646.3210 | SUPPORT | | |
| 1 | 14 | | 646.3710 | DOUBLER | | |
| 1 | 13 | | 646.3110 | CHANNEL | | |
| 6 | 12 | | 601.1624 | LOCKNUT | MS21047-3 | |
| 16 | 11 | | 601.1607 | WASHER | MS21047-3 | |
| 1 | 10 | | 646.3411 | RH WIPER DEFLECTOR | | |
| 1 | 9 | | 646.3410 | LH WIPER DEFLECTOR | | |
| 1 | 8 | | 646.3513 | STRUT | | |
| 1 | 7 | | 646.3512 | STRUT | | |
| 1 | 6 | | 646.3511 | STRUT | | |
| 1 | 5 | | 646.3510 | STRUT | | |
| 2 | 4 | | 646.3810 | BRACKET | | |
| 1 | 3 | | 646.3910 | DEFLECTOR | | |
| 1 | 2 | | 646.3301 | LOWER CUTTER ASSY | | |
| 1 | 1 | | 646.3301 | UPPER CUTTER ASSY | | |
| 1 | | | 646.4002 | ASS350 WIPER DEFLECTOR KIT | | |
| 1 | | | 646.4001 | ASS350 CABLE CUTTERS KIT | | |

| | | | | | | |
|--|------|------------------------|--------|---------------------------------|------|---------------|
| QTY | REV. | FIND # | PART # | DESCRIPTION | MATL | SPEC. |
| PARTS LIST | | | | | | |
| <p>ORIGINAL DATE: 02-07-08 DRAWN BY: J. BRAVO CHECKED BY: J. BRAVO DESIGNED BY: J. BRAVO APPROVED BY: J. BRAVO DATE: 02/06/2010</p> | | | | | | |
| <p>UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES DECIMALS ARE TO THREE PLACES UNLESS OTHERWISE SPECIFIED ANGLES ARE IN DEGREES</p> | | | | | | |
| <p>APICAL INDUSTRIES 2606 TEMPLE HEIGHTS DR. OCEANSIDE, CA. 92056-3512 (760)724-5300</p> | | | | <p>ASS350 CABLE CUTTERS KIT</p> | | |
| <p>REV. B</p> | | <p>CAGE CODE 07M26</p> | | <p>DWG. NO. 646.4000</p> | | <p>REV. A</p> |
| <p>SCALE: NONE</p> | | | | <p>SHEET 1 OF 4</p> | | |



| QTY | REV. | FIND # | PART # | DESCRIPTION | MATL | SPEC. |
|-----|------|--------|----------|-------------|--------------|-------|
| 6 | 64 | | 601.3151 | WASHER | MS21047-3 | |
| 2 | 63 | | 601.2911 | SCREW | MS24694553 | |
| 2 | 62 | | 601.2637 | SCREW | MS27036-1-16 | |
| 2 | 61 | | 601.2763 | BOLT | AN3-12A | |
| 1 | 60 | | 646.3913 | SHIM | | |
| 4 | 59 | | 646.3912 | SHIM | | |
| 1 | 58 | | 646.3911 | SHIM | | |

REFERENCE ONLY

Work Order ID 98643

March-19-13 10:53:02 AM

98643

Page 1

Item ID: 646.4001

Accept

N900040100

Setup Start

NS1

Revision ID:

Stop

NS2

Item Name: AS350 Cable Cutter

Start Date: 3/19/13 Start Qty: 1.00

1

Cust Item ID:

Required Date: 4/02/13 Req'd Qty: 1.00

1

Customer:

Reference:

Run Start

NR1

Approvals: Process Plan: *MLJ*

Date: *13-03-19* Tooling:

Date:

Stop

NR2

QC:

Date:

SPC (Y/N):

Date:

| Sequence ID/ Work Center ID | Operation Description | Set Up/ Run Hours | Tool ID | Tool # | Plan Code | Accept Qty | Reject Qty | Reject Number | Insp. Stamp |
|--------------------------------|--------------------------|----------------------|---------|--------|--------------|---------------|---------------|------------------|----------------|
|--------------------------------|--------------------------|----------------------|---------|--------|--------------|---------------|---------------|------------------|----------------|

Draw Nbr

Revision Nbr

646.4000

A

100

0.00

100

DOCUMENT CONTROL

DC

Memo

0.00

Document Control

Photocopy bluefile & type labels per PPP 646.4001

110

Pick Kit

0.00

110

Packaging

Memo

0.00

Packaging

120

QC4- 100% Inspect kits for completeness

0.00

120

QC

Memo

0.00

Quality Control

MLJ 13-03-20

[Signature]